

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| FAI RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------|--------------------------|------------|--------------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 1 |
| | | ILLINOIS | CONTRACT NO. 74A71 | |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

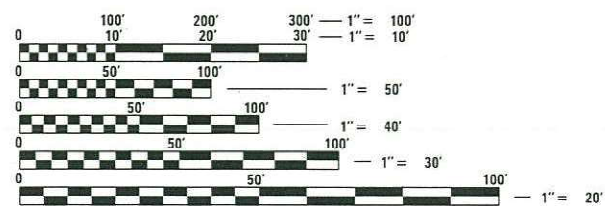
ADT 13,300 (2021) EASTBOUND
ADT 12,500 (2021) WESTBOUND

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 70 (I-70)
SECTION D7 BRIDGE REPAIRS 2023-3
PROJECT NHPP-GQJB(851)
DECK OVERLAY, DECK REPAIRS, JOINT REPLACEMENT
CUMBERLAND COUNTY

C-97-171-21

S.N. 018-0051 WESTBOUND
S.N. 018-0052 EASTBOUND
STATION 487+20

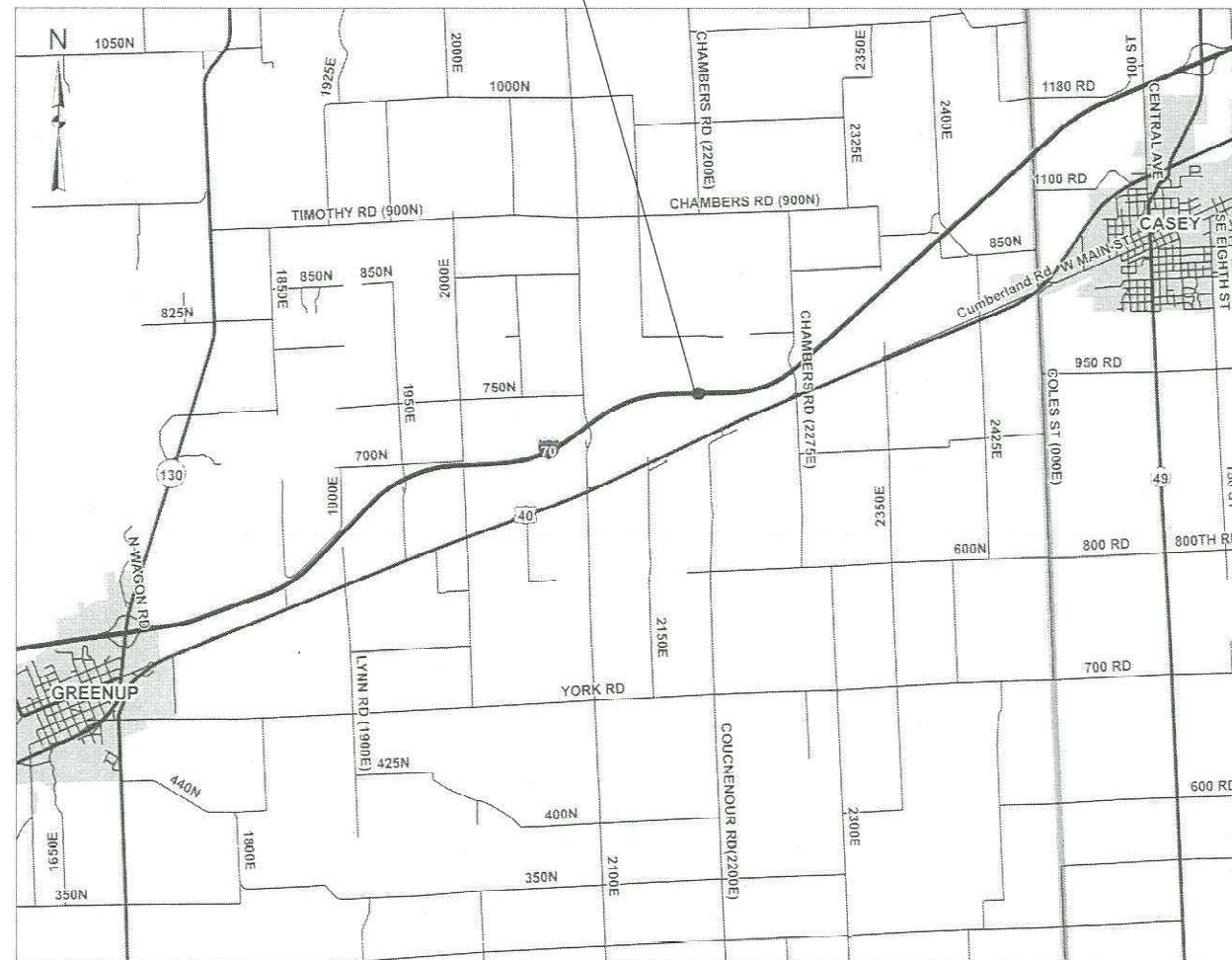


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

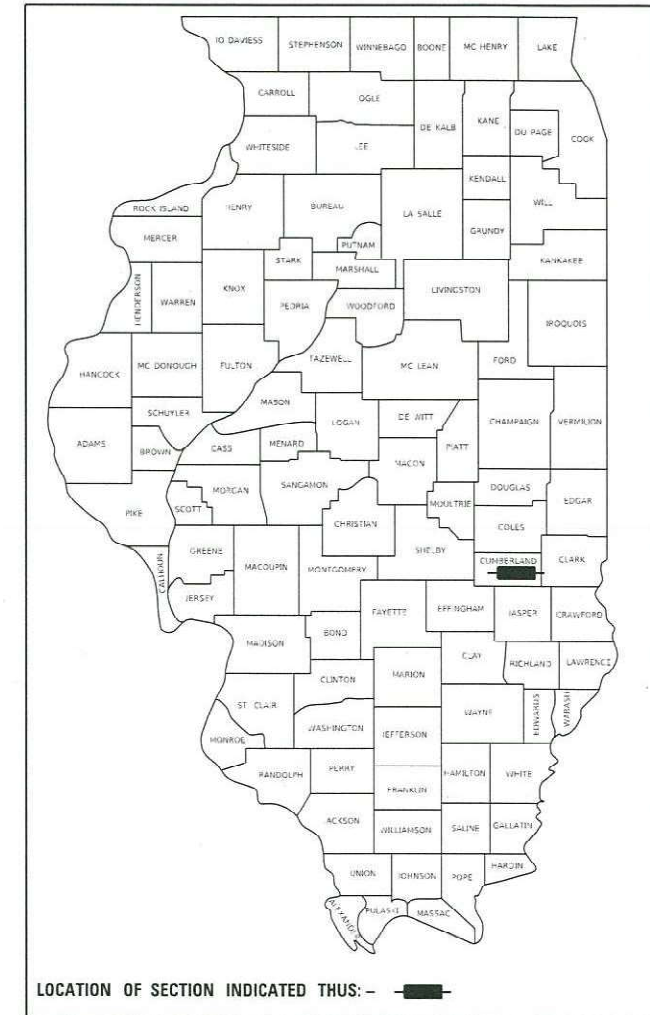
PROJECT ENGINEER: BRIAN LEWIS
PROJECT MANAGER: MYRA OLTMAN

CONTRACT NO. 74A71



GROSS LENGTH = 324.67 FT. = 0.006 MILE
NET LENGTH = 324.67 FT. = 0.006 MILE

D-97-102-21



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 16 20 22
Jeffery P. Myer
REGIONAL ENGINEER

October 14, 2022
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Steph M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED ON I-70 AT RANGE CREEK BETWEEN GREENUP (IL ROUTE 130) AND CASEY (IL ROUTE 49).

THE WORK IN THIS SECTION CONSISTS OF BRIDGE DECK SCARIFICATION, BRIDGE DECK CONCRETE OVERLAY, DECK REPAIR, EXPANSION JOINTS, NEW APPROACH PAVEMENT AND PAVEMENT CONNECTORS, REMOVE AND RE-ERECT TYPE 6 TRAFFIC BARRIER TERMINALS, SHOULDER REMOVAL, PCC SHOULDER, PAVEMENT MARKING, AND ANY OTHER WORK NEEDED TO COMPLETE THIS SECTION.

PAVEMENT MARKING TAPE SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON HMA SURFACES.

FINAL PAVEMENT MARKINGS ON PAVEMENT SURFACES SHALL BE AS FOLLOWS:

PAVEMENT MARKINGS ON HOT-MIX ASPHALT SURFACE, PCC APPROACH PAVEMENTS AND BRIDGE DECK OVERLAY SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6".

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

| LOCATION (S) | MIXTURE USE(S) | PG | DESIGN AIR VOIDS | MIXTURE COMPOSITION | FRICTION AGGREGATE | MIXTURE WEIGHT | QUALITY MANAGEMENT PROGRAM | SUBLOT SIZE | MATERIAL TRANSFER DEVICE (REQUIRED?) |
|--------------|--|--------------|------------------|---------------------|--------------------|----------------|----------------------------|-------------|--------------------------------------|
| MAINLINE | POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90 | SBS PG 70-22 | 4.0% @ N=90 | IL - 9.5 | MIXTURE D | N90 | QC/QA | N/A | N/A |
| MAINLINE | HMA PAVEMENT CONNECTOR | PG 64-22 | 4.0% @ N=90 | IL - 19.0 | N/A | N90 | QC/QA | N/A | N/A |

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS AND GENERAL NOTES |
| 3 - 4 | SUMMARY OF QUANTITIES |
| 5 | TYPICAL SECTIONS |
| 6 | SCHEDULE OF QUANTITIES |
| 7 | STRUCTURE PROFILE TRANSITION DETAIL |
| 8-9 | STAGING PLAN SHEETS |
| 10 | BRIDGE APPROACH SHOULDER DETAIL |
| 11-29 | BRIDGE REPAIR PLANS |
| 30-31 | DISTRICT 7 DETAIL NO. 78000002 -TYPICAL APPLICATION OF FREEWAY/EXPRESSWAY PAVEMENT MARKING |

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS:

| <u>STANDARD NO.</u> | <u>DESCRIPTION</u> |
|---------------------|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 420406 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |
| 420701-03 | PAVEMENT WELDED WIRE REINFORCEMENT |
| 483001-06 | PCC SHOULDER |
| 631031-17 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 642001-03 | SHOULDER RUMBLE STRIPS, 16 INCH |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY |
| 701400-11 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701401-13 | LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701402-12 | LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER |
| 701406-13 | LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 420001-10 | PAVEMENT JOINTS |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |

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| | | | | | | | | | | |
|------------------------------|------------|-----------|---|---|--|-----------------------------|--------------------------|------------|--------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL NOTES, INDEX OF SHEETS AND HIGHWAY STANDARDS | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 100.0000' / in. | DRAWN - | REVISED - | | | | 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 2 |
| PLOT DATE = 8/22/2022 | CHECKED - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | | | |
| | DATE - | REVISED - | | | | | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | |
|-----------------------|---|-------|------------------|------------------------------|--|-----|-----------------------|---|--------|------------------|------------------------------|--|-----|
| CODE NO | ITEM | UNIT | | 0047 90% FED 10% STATE | | --- | CODE NO | ITEM | UNIT | | 0047 90% FED 10% STATE | | --- |
| 20900110 | POROUS GRANULAR BACKFILL | CU YD | 99.6 | 99.6 | | | 50301350 | CONCRETE SUPERSTRUCTURE (APPROACH SLAB) | CU YD | 113 | 113 | | |
| 31101900 | SUBBASE GRANULAR MATERIAL, TYPE C | TON | 480 | 480 | | | 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 53482 | 53482 | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 748 | 748 | | | 50800515 | BAR SPLICERS | EACH | 600 | 600 | | |
| 40604164 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90 | TON | 64 | 64 | | | 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 166 | 166 | | |
| 42000070 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB | SO YD | 268 | 268 | | | 52200020 | TEMPORARY SOIL RETENTION SYSTEM | SO FT | 95.8 | 95.8 | | |
| 44000100 | PAVEMENT REMOVAL | SO YD | 108 | 108 | | | 59100100 | GEOCOMPOSITE WALL DRAIN | SO YD | 80 | 80 | | |
| 44004250 | PAVED SHOULDER REMOVAL | SO YD | 2778 | 2778 | | | * 63302700 | REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6 | EACH | 4 | 4 | | |
| 44200050 | WELDED WIRE REINFORCEMENT | SO YD | 2778 | 2778 | | | 64200116 | SHOULDER RUMBLE STRIPS, 16 INCH | FOOT | 3048 | 3048 | | |
| 48300500 | PORTLAND CEMENT CONCRETE SHOULDERS 10" | SO YD | 2778 | 2778 | | | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 5 | 5 | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 51.4 | 51.4 | | | 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 73.2 | 73.2 | | | 70100205 | TRAFFIC CONTROL AND PROTECTION, STANDARD | EACH | 2 | 2 | | |
| 50300225 | CONCRETE STRUCTURES | CU YD | 65.3 | 65.3 | | | 701401 | | | | | | |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 26 | 26 | | | 70100207 | TRAFFIC CONTROL AND PROTECTION, STANDARD | EACH | 2 | 2 | | |
| 50300300 | PROTECTIVE COAT | SO YD | 1451 | 1451 | | | 701402 | | | | | | |

* SPECIALTY ITEM

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| | | |
|------------------------------|------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/25/2022 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|--------------------------|------------|-----------------|--------------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 3 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

REV-SEP

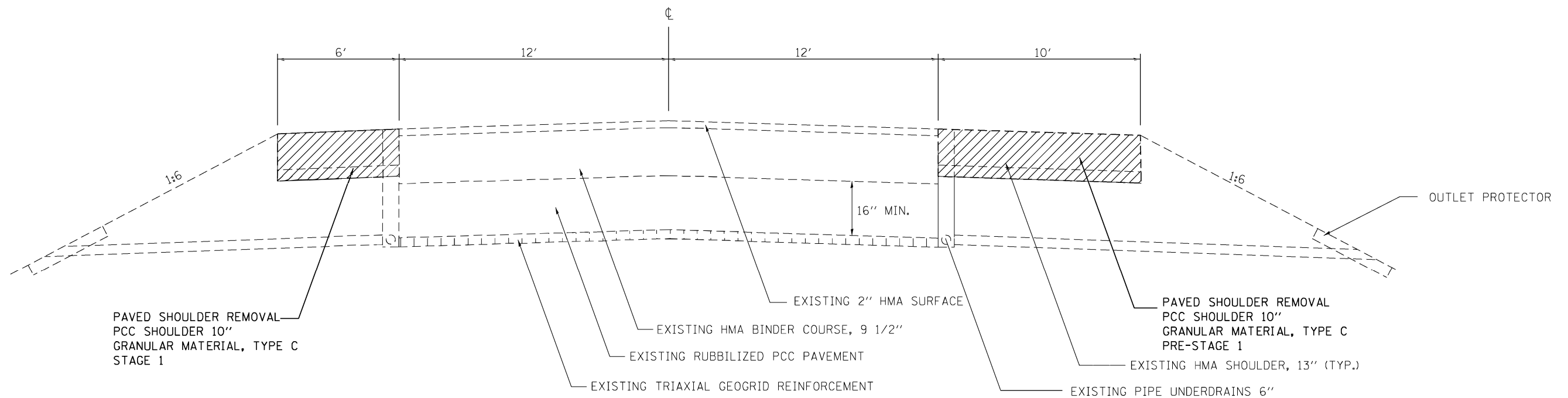
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| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | |
|-----------------------|---|--------|------------------|------------------------------|--|----------|--|-------|------|------------------|------------------------------|--|-----|
| CODE NO | ITEM | UNIT | | 0047 90% FED 10% STATE | | --- | CODE NO | ITEM | UNIT | | 0047 90% FED 10% STATE | | --- |
| 70100701 | TRAFFIC CONTROL AND PROTECTION, STANDARD | EACH | 2 | 2 | | 78300202 | PAVEMENT MARKING REMOVAL - WATER BLASTING | SO FT | 286 | 286 | | | |
| | 701406 | | | | | | | | | | | | |
| 70107007 | PAVEMENT MARKING BLACKOUT TAPE, 7" | FOOT | 974 | 974 | | X4060995 | TEMPORARY RAMP, SPECIAL | SO YD | 216 | 216 | | | |
| | | | | | | | | | | | | | |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 28 | 28 | | X4201510 | P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT (SPECIAL) | SO YD | 190 | 190 | | | |
| | | | | | | | | | | | | | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 175 | 175 | | X5030250 | BRIDGE DECK GROOVING (LONGITUDINAL) | SO YD | 700 | 700 | | | |
| | | | | | | | | | | | | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SO FT | 627 | 627 | | Z0001495 | BRIDGE APPROACH SHOULDER REMOVAL | SO YD | 90 | 90 | | | |
| | | | | | | | | | | | | | |
| 70300241 | TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT | FOOT | 3969 | 3969 | | Z0004552 | APPROACH SLAB REMOVAL | SO YD | 268 | 268 | | | |
| | | | | | | | | | | | | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 1125 | 1125 | | Z0012111 | BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/2" | SO YD | 1113 | 1113 | | | |
| | | | | | | | | | | | | | |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 1125 | 1125 | | Z0012130 | BRIDGE DECK SCARIFICATION 3/4" | SO YD | 1113 | 1113 | | | |
| | | | | | | | | | | | | | |
| 70600250 | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 2 | 2 | | Z0016001 | DECK SLAB REPAIR (FULL DEPTH, TYPE I) | SO YD | 6 | 6 | | | |
| | | | | | | | | | | | | | |
| 70600350 | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 2 | 2 | | Z0016002 | DECK SLAB REPAIR (FULL DEPTH, TYPE II) | SO YD | 5 | 5 | | | |
| | | | | | | | | | | | | | |
| | | | | | | Z0018051 | DRAINAGE SCUPPERS TO BE ADJUSTED | EACH | 4 | 4 | | | |
| | | | | | | | | | | | | | |
| * 78004230 | PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" | FOOT | 3969 | 3969 | | Z0029090 | DIAMOND GRINDING (BRIDGE SECTION) | SO YD | 1436 | 1436 | | | |
| | | | | | | | | | | | | | |
| * 78011035 | GROOVING FOR RECESSED PAVEMENT MARKING 7" | FOOT | 3969 | 3969 | | | | | | | | | |
| | | | | | | | | | | | | | |
| 78300201 | PAVEMENT MARKING REMOVAL - GRINDING | SO FT | 1689 | 1689 | | | | | | | | | |

* SPECIALTY ITEM

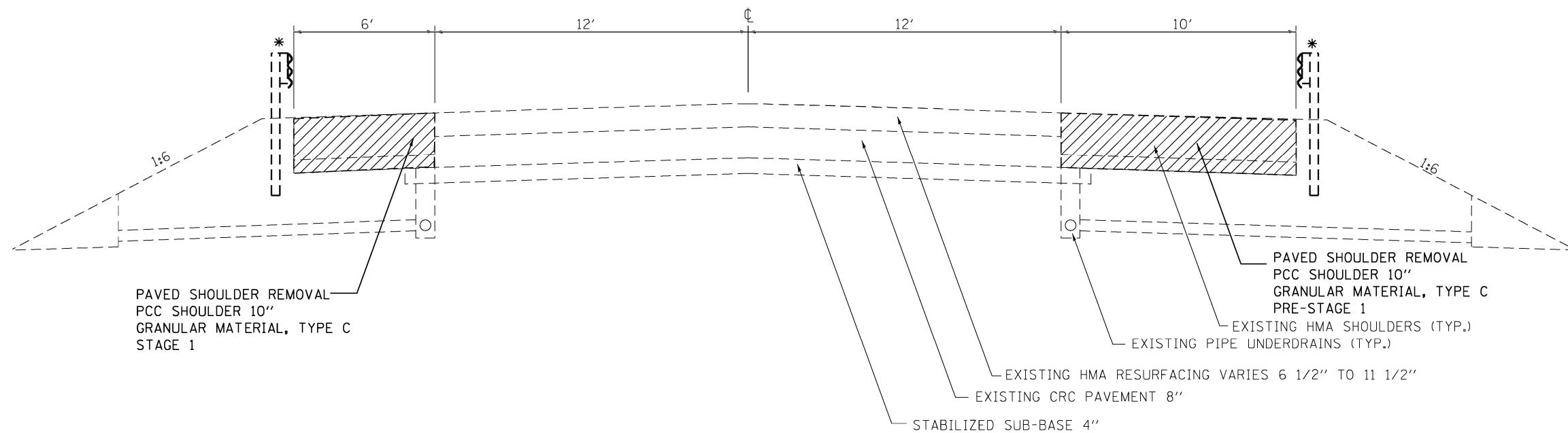
REV. - MS

| | | | | | | | | | | | | | |
|------------------------------|--|------------|--|-----------|--------------------------|---|---------------------------|------|-------------|---------|--------|--------------|-----------|
| USER NAME = Mona.Steffen | | DESIGNED - | | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | | REVISED - | | 70 | D7 BRIDGE REPAIRS 2023-3 | | CUMBERLAND | 31 | 4 | | | | |
| PLOT SCALE = 100.0000' / in. | | CHECKED - | | REVISED - | | | CONTRACT NO. 74A71 | | | | | | |
| PLOT DATE = 8/25/2022 | | DATE - | | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | | |
| | | | | SCALE: | | SHEET 1 OF 2 SHEETS | | STA. | | | | TO STA. | |



PROPOSED TYPICAL SECTION

STATION 491+17 TO STATION 493+97 WB
 STATION 481+43 TO STATION 483+22 EB



PROPOSED TYPICAL SECTION

STATION 483+72 TO STATION 486+27 WB
 STATION 488+72 TO STATION 486+27 EB
 STATION 483+12 TO STATION 491+17 WB
 STATION 493+12 TO STATION 491+67 EB

*REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 6
 ON ONE END OF EACH STRUCTURE

MODEL: Default
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| | | |
|------------------------------|------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/22/2022 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|------------------------|------------------------------|
| TYPICAL SECTION | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 5 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

REV. - MS

| PAVED SHOULDER SCHEDULE | | | | | | | | | | |
|-------------------------|-------|---------|----|---------|-------------|-------|-------|-------|------|------|
| NO. | DL/PL | STATION | TO | STATION | LENGTH (FT) | TON | SQ YD | SQ YD | FOOT | |
| PRE-STAGE CONSTRUCTION | | | | | | | | | | |
| 018-0051 | DL | 483+72 | TO | 486+52 | 280 | 54 | 311 | 311 | 280 | |
| | DL | 487+87 | TO | 492+97 | 510 | 97 | 567 | 567 | 510 | |
| STAGE 1 CONSTRUCTION | | | | | | | | | | |
| 018-0051 | PL | 483+72 | TO | 486+27 | 255 | 30 | 170 | 170 | 255 | |
| | PL | 488+12 | TO | 492+97 | 485 | 56 | 323 | 323 | 485 | |
| PRE-STAGE CONSTRUCTION | | | | | | | | | | |
| 018-0052 | DL | 481+43 | TO | 486+52 | 509 | 97 | 566 | 566 | 509 | |
| | DL | 487+87 | TO | 491+67 | 380 | 73 | 422 | 422 | 380 | |
| STAGE 1 CONSTRUCTION | | | | | | | | | | |
| 018-0052 | PL | 483+43 | TO | 486+17 | 274 | 32 | 183 | 183 | 274 | |
| | PL | 488+12 | TO | 491+67 | 355 | 41 | 237 | 237 | 355 | |
| | | | | | | TOTAL | 480 | 2778 | 2778 | 3048 |

| PAVEMENT MARKING SCHEDULE | | | | | | | | | | | | | |
|---------------------------|----------|---------|--------|---------|--------|------|------|-------|------|-------|------|-------|-----|
| BRIDGE NO. | DL/PL/CL | STATION | TO | STATION | FOOT | FOOT | FOOT | SQ FT | FOOT | SQ FT | FOOT | SQ FT | |
| 018-0051 | CL | 483+60 | TO | 485+22 | | | | | 162 | | | | |
| | DL | 483+72 | TO | 486+52 | 280 | 280 | 11 | 140 | | 4 | 280 | | |
| | DL | 485+27 | TO | 488+12 | | | | | | | | 143 | |
| | DL | 486+52 | TO | 487+87 | 135 | 135 | 5 | 0 | | 2 | 135 | | |
| | DL | 487+87 | TO | 492+97 | 510 | 510 | 20 | 255 | | 7 | 510 | | |
| | CL | 486+52 | TO | 487+87 | 34 | 34 | 14 | 68 | | 5 | 34 | | |
| | PL | 483+72 | TO | 486+27 | 255 | 255 | 10 | 128 | | 3 | 255 | | |
| | PL | 486+27 | TO | 488+12 | 185 | 185 | 7 | 0 | | 2 | 185 | | |
| | PL | 488+12 | TO | 492+97 | 485 | 485 | 19 | 243 | | 6 | 485 | | |
| | CL | 489+52 | TO | 491+91 | 60 | 60 | 0 | 255 | 239 | 0 | 60 | | |
| | 018-0052 | CL | 482+77 | TO | 485+60 | 71 | 71 | 0 | 0 | 283 | 0 | 71 | |
| DL | | 481+43 | TO | 486+52 | 509 | 509 | 20 | 140 | | 7 | 509 | | |
| DL | | 485+27 | TO | 488+12 | | | | | | | | 143 | |
| DL | | 486+52 | TO | 487+87 | 135 | 135 | 5 | 68 | | 2 | 135 | | |
| DL | | 487+87 | TO | 490+67 | 280 | 280 | 11 | 255 | | 4 | 280 | | |
| CL | | 486+52 | TO | 487+87 | 34 | 34 | 14 | 0 | | 5 | 34 | | |
| PL | | 481+43 | TO | 486+52 | 509 | 509 | 20 | 140 | | 7 | 509 | | |
| PL | | 486+52 | TO | 487+87 | 135 | 135 | 5 | 0 | | 2 | 135 | | |
| PL | | 487+87 | TO | 490+67 | 280 | 280 | 11 | 0 | | 4 | 280 | | |
| CL | 489+17 | TO | 492+07 | 73 | 73 | 0 | 0 | 290 | 0 | 73 | | | |
| | | | | | TOTAL | 3969 | 3969 | 175 | 1689 | 974 | 58 | 3969 | 286 |

| TEMPORARY RAMP, SPECIAL | | | | | | | |
|-------------------------|-----------------|---------|----|---------|--------|------------|-------|
| BRIDGE NO. | | STATION | TO | STATION | LENGTH | WIDTH (FT) | SQ YD |
| 018-0051 | STAGE 2 TRAFFIC | 486+22 | TO | 486+52 | 30 | 16 | 54 |
| 018-0052 | STAGE 2 TRAFFIC | 487+87 | TO | 488+17 | 30 | 16 | 54 |
| 018-0051 | STAGE 2 TRAFFIC | 486+22 | TO | 486+52 | 30 | 16 | 54 |
| 018-0052 | STAGE 2 TRAFFIC | 487+87 | TO | 488+17 | 30 | 16 | 54 |
| | | | | | | TOTAL | 216 |

| PAVEMENT REMOVAL | | | | | | | |
|------------------|---------|----|---------|--------|-------|-------|-----|
| BRIDGE NO. | STATION | TO | STATION | LENGTH | WIDTH | SQ YD | |
| 018-0051 | 486+17 | TO | 486+27 | 10 | 24 | 27 | |
| 018-0051 | 488+12 | TO | 488+22 | 10 | 24 | 27 | |
| 018-0052 | 486+17 | TO | 486+27 | 10 | 24 | 27 | |
| 018-0052 | 488+12 | TO | 488+22 | 10 | 24 | 27 | |
| | | | | | | TOTAL | 108 |

| POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90 | | | | | | | |
|--|---------|----|---------|---------------|--------------|-------|----|
| BRIDGE NO. | STATION | TO | STATION | LENGTH (FOOT) | WIDTH (FOOT) | (TON) | |
| 018-0051 | 486+27 | TO | 485+57 | 70 | 24 | 16 | |
| 018-0051 | 488+12 | TO | 488+82 | 70 | 24 | 16 | |
| 018-0052 | 486+27 | TO | 485+57 | 70 | 24 | 16 | |
| 018-0052 | 488+12 | TO | 488+82 | 70 | 24 | 16 | |
| | | | | | | TOTAL | 64 |

| STAGE CONSTRUCTION SCHEDULE | | | | | | | |
|-----------------------------|-------|------|-------|------|------|------|------|
| BRIDGE NO. | FOOT | EACH | FOOT | EACH | EACH | EACH | EACH |
| | | | | | | | |
| 018-0051 | 562.5 | 1 | 587.5 | 1 | 1 | 1 | 1 |
| 018-0052 | 562.5 | 1 | 587.5 | 1 | 1 | 1 | 1 |
| TOTAL | 1125 | 2 | 1175 | 2 | 2 | 2 | 2 |

| HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | | | | | | | |
|--|---------|----|---------|---------------|--------------|-------|----------|
| BRIDGE NO. | STATION | TO | STATION | LENGTH (FOOT) | WIDTH (FOOT) | SQ YD | |
| | | | | | | | 018-0051 |
| 018-0051 | 488+12 | TO | 488+82 | 70 | 24 | 187 | |
| 018-0052 | 486+27 | TO | 485+57 | 70 | 24 | 187 | |
| 018-0052 | 488+12 | TO | 488+82 | 70 | 24 | 187 | |
| | | | | | | TOTAL | 748 |

| REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6 | | | |
|--|---------|-------|---|
| BRIDGE NO. | STATION | EACH | |
| 018-0051 | NE | 1 | |
| 018-0051 | SE | 1 | |
| 018-0052 | NW | 1 | |
| 018-0052 | SW | 1 | |
| | | TOTAL | 4 |

| PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB | | | | | | | |
|---|---------|----|---------|--------|-------|------------|-----|
| BRIDGE NO. | STATION | TO | STATION | LENGTH | WIDTH | AREA SQ YD | |
| 018-0051 | 485+27 | TO | 485+52 | 25 | 24 | 67 | |
| | 487+87 | TO | 488+12 | 25 | 24 | 67 | |
| 018-0052 | 485+27 | TO | 485+52 | 25 | 24 | 67 | |
| | 487+87 | TO | 488+12 | 25 | 24 | 67 | |
| | | | | | | TOTAL | 268 |

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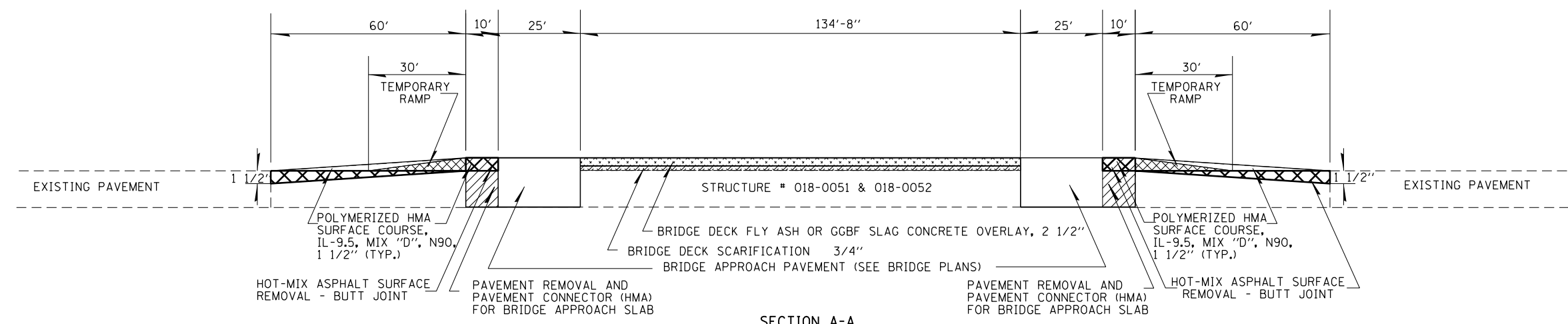
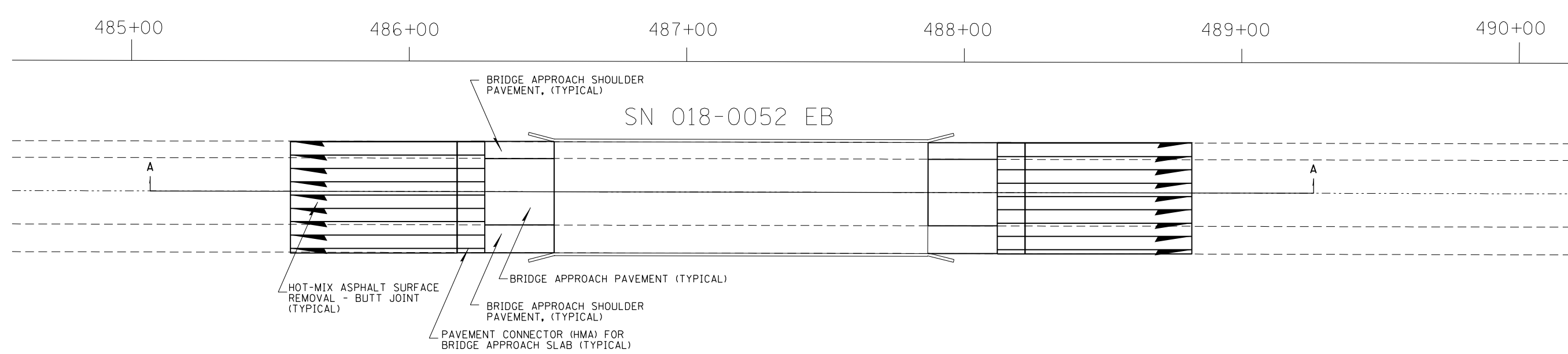
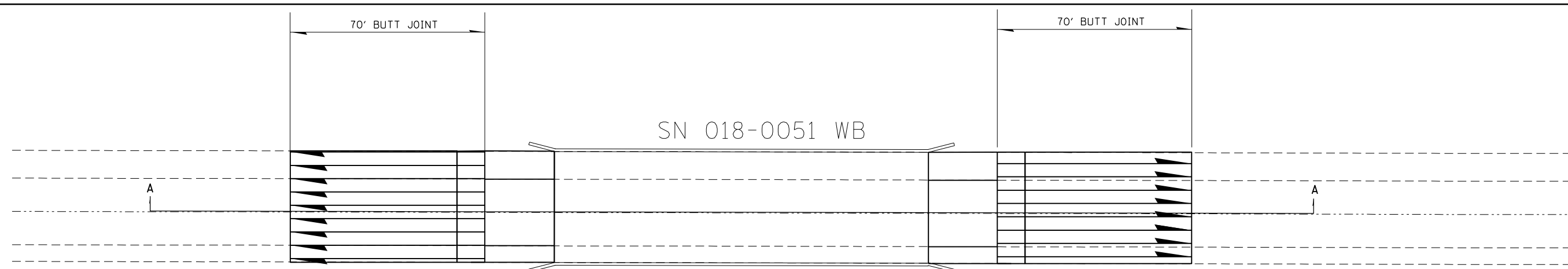
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| PLOT SCALE = 100.0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 8/22/2022 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| SCHEDULE OF QUANTITIES | | | | |
|------------------------|-------|----|--------|--------------|
| SCALE: | SHEET | OF | SHEETS | STA. TO STA. |
| | | | | |

| | | | | |
|-----------------------------|----------------------------------|-------------------|--------------------|-------------|
| F.A.I. RTE. 70 | SECTION D7 BRIDGE REPAIRS 2023-3 | COUNTY CUMBERLAND | TOTAL SHEETS 31 | SHEET NO. 6 |
| ILLINOIS / FED. AID PROJECT | | | CONTRACT NO. 74A71 | |

REV. - MS



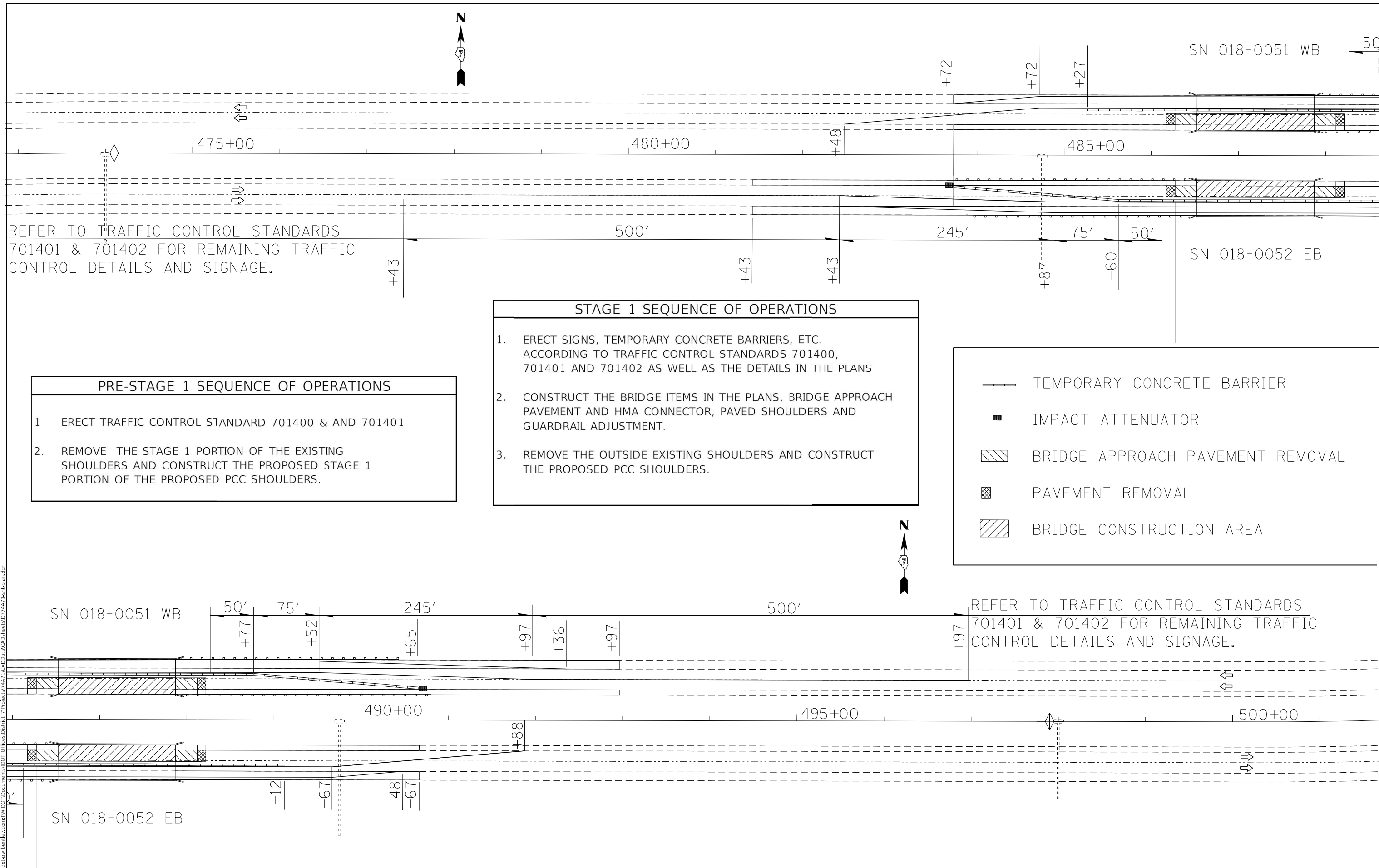
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| USER NAME = Mona.Steffen | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/22/2022 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------|----|---------|
| STRUCTURE PROFILE TRANSITION DETAIL | | | |
| SCALE: | SHEET | OF | SHEETS |
| | STA. | | TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 7 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



REFER TO TRAFFIC CONTROL STANDARDS 701401 & 701402 FOR REMAINING TRAFFIC CONTROL DETAILS AND SIGNAGE.

| | |
|--|----------------------------------|
| | TEMPORARY CONCRETE BARRIER |
| | IMPACT ATTENUATOR |
| | BRIDGE APPROACH PAVEMENT REMOVAL |
| | PAVEMENT REMOVAL |
| | BRIDGE CONSTRUCTION AREA |

| PRE-STAGE 1 SEQUENCE OF OPERATIONS | |
|------------------------------------|--|
| 1 | ERECT TRAFFIC CONTROL STANDARD 701400 & AND 701401 |
| 2 | REMOVE THE STAGE 1 PORTION OF THE EXISTING SHOULDERS AND CONSTRUCT THE PROPOSED STAGE 1 PORTION OF THE PROPOSED PCC SHOULDERS. |

| STAGE 1 SEQUENCE OF OPERATIONS | |
|--------------------------------|---|
| 1. | ERECT SIGNS, TEMPORARY CONCRETE BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARDS 701400, 701401 AND 701402 AS WELL AS THE DETAILS IN THE PLANS |
| 2. | CONSTRUCT THE BRIDGE ITEMS IN THE PLANS, BRIDGE APPROACH PAVEMENT AND HMA CONNECTOR, PAVED SHOULDERS AND GUARDRAIL ADJUSTMENT. |
| 3. | REMOVE THE OUTSIDE EXISTING SHOULDERS AND CONSTRUCT THE PROPOSED PCC SHOULDERS. |

REFER TO TRAFFIC CONTROL STANDARDS 701401 & 701402 FOR REMAINING TRAFFIC CONTROL DETAILS AND SIGNAGE.

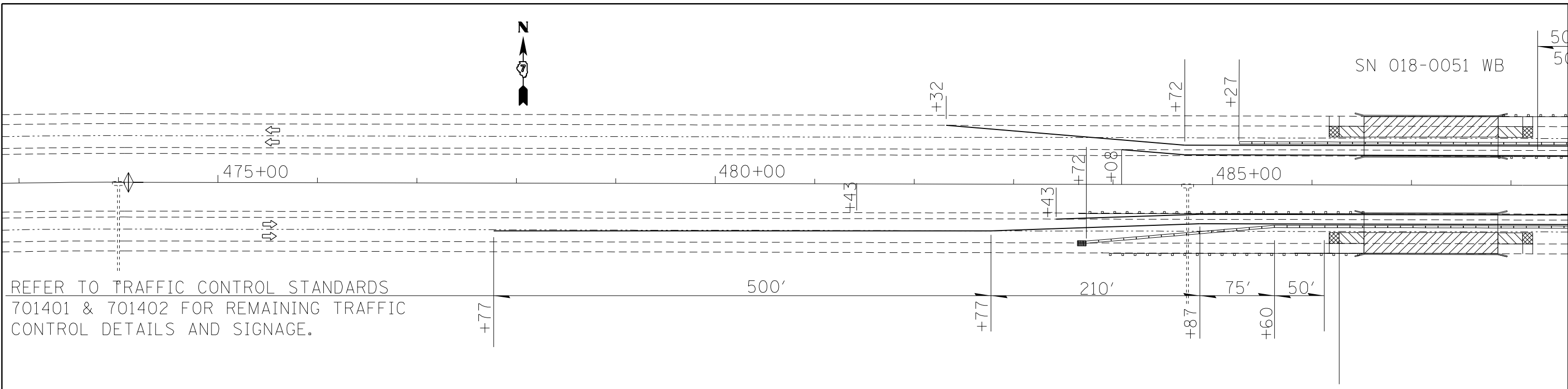
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| | | |
|------------------------------|------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - |
| PLOT SCALE = 100,0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 8/22/2022 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|-------------------------------|------------------------------|
| PRE-STAGE CONSTRUCTION | |
| STAGE 1 CONSTRUCTION | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 8 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



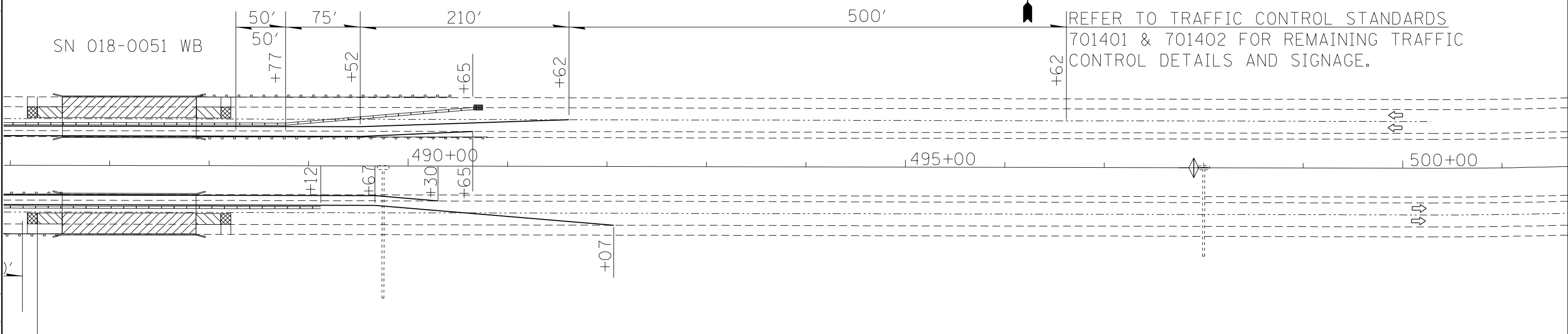
REFER TO TRAFFIC CONTROL STANDARDS 701401 & 701402 FOR REMAINING TRAFFIC CONTROL DETAILS AND SIGNAGE.

- STAGE 2 SEQUENCE OF OPERATIONS**
1. RELOCATE TEMPORARY CONCRETE BARRIERS, ACCORDING TO TRAFFIC CONTROL STANDARDS 701400, 701401 AND 701402 AS WELL AS THE DETAILS IN THE PLANS
 2. CONSTRUCT THE BRIDGE ITEMS IN THE PLANS, BRIDGE APPROACH PAVEMENT, HMA CONNECTOR AND PAVED SHOULDERS.

- POST STAGE SEQUENCE OF OPERATIONS**
1. REMOVE TEMPORARY CONCRETE BARRIER AND SET UP TRAFFIC CONTROL STANDARD 701406
 2. CONSTRUCT HMA MILLING & PAVING IN STAGES ONE LANE AT A TIME.

LEGEND

- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- BRIDGE APPROACH PAVEMENT REMOVAL
- PAVEMENT REMOVAL
- BRIDGE CONSTRUCTION AREA



REFER TO TRAFFIC CONTROL STANDARDS 701401 & 701402 FOR REMAINING TRAFFIC CONTROL DETAILS AND SIGNAGE.

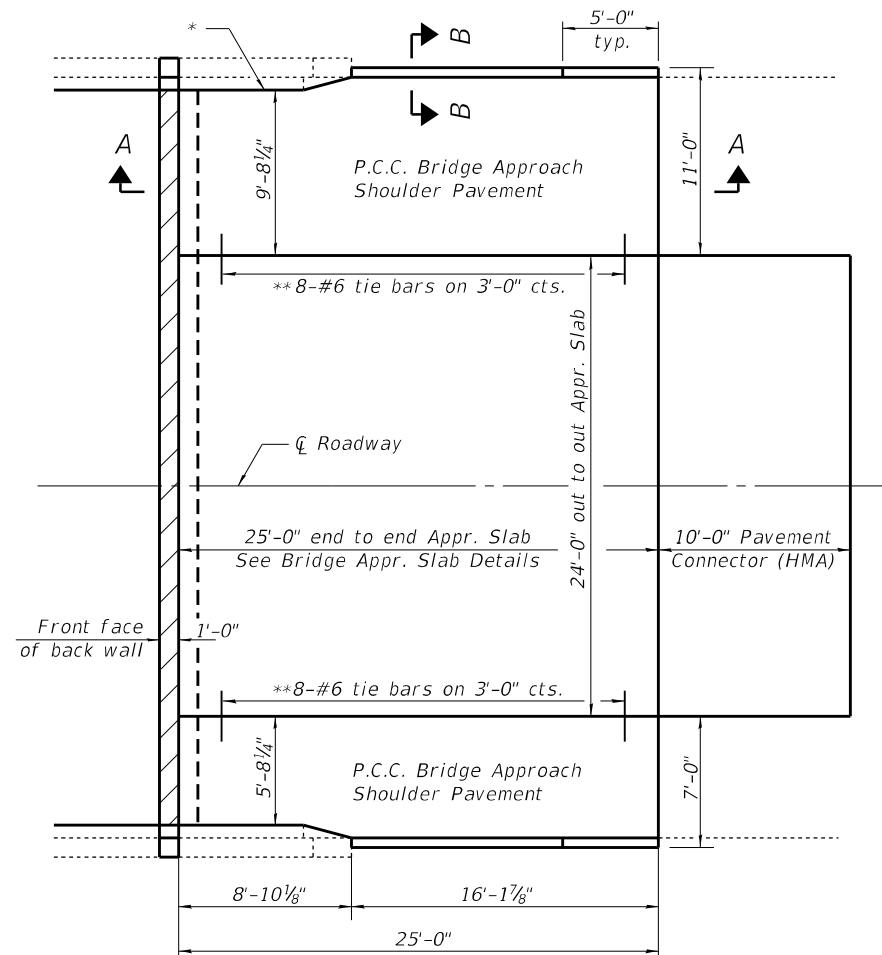
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|------------------------------|------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/22/2022 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

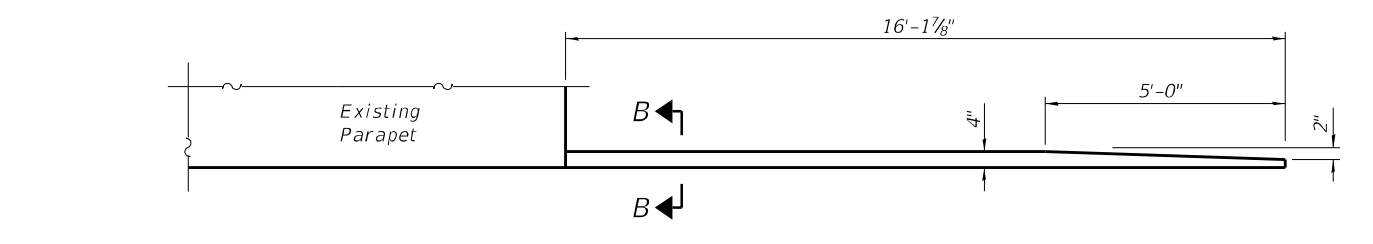
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| STAGE 2 CONSTRUCTION AND POST-STAGE CONSTRUCTION | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 9 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

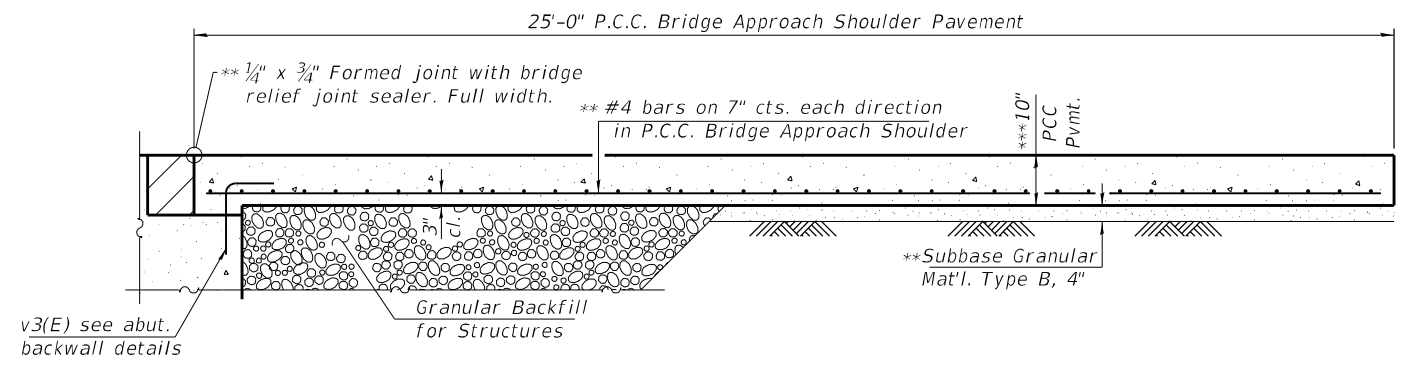


PLAN

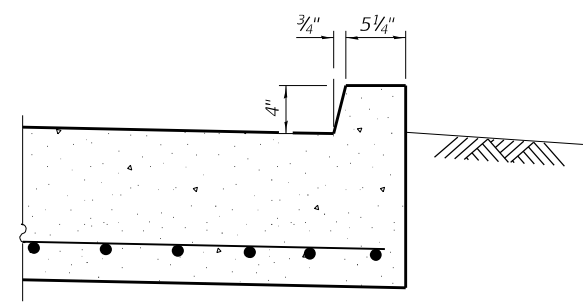
East approach W.B. lane shown
Other approaches similar



INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A



SECTION B-B

Notes:

Bridge approach shoulder pavement, tie bars and slab reinforcement shall be paid for as P.C. Concrete Bridge Approach Shoulder Pavement (Special).

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of Std. Spec; full depth slab, full length of parapet. Typ. each parapet.

** Cost shall be included with P.C. Concrete Bridge Approach Shoulder Pavement (Special)

*** Prior to grinding

**TWO BRIDGES
BILL OF MATERIAL**

| ITEM | UNIT | TOTAL |
|---|---------|-------|
| P.C. Concrete Bridge Approach Shoulder Pavement (Special) | Sq. Yd. | 190 |

MODEL: Default
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 PROJECT: 74A71

| | | |
|------------------------------|-----------------------|-----------|
| USER NAME = Mona.Steffen | DESIGNED - D. Macklin | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/25/2022 | DATE - March 2022 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH SHOULDER PAVEMENT

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|--------------------------|------------|--------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 10 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

The existing three span continuous steel beam structures were constructed in 1970 as F.A.I. Route 70 Section 18-48B at STA. 487+20.00. S.N. 018-0051 (WB) and S.N. 018-0052 (EB) carries F.A.I. Route 70 (I-70) over Range Creek. In 2001, the old deck was replaced and existing beams were raised due to profile grade raise. The superstructure consists of a R.C. deck with out-to-out width of 42'-7³/₄", supported on 3-span continuous steel beams with back to back abutment length of 134'-8". The substructure consists of R.C. pile bent abutments and R.C. solid piers.

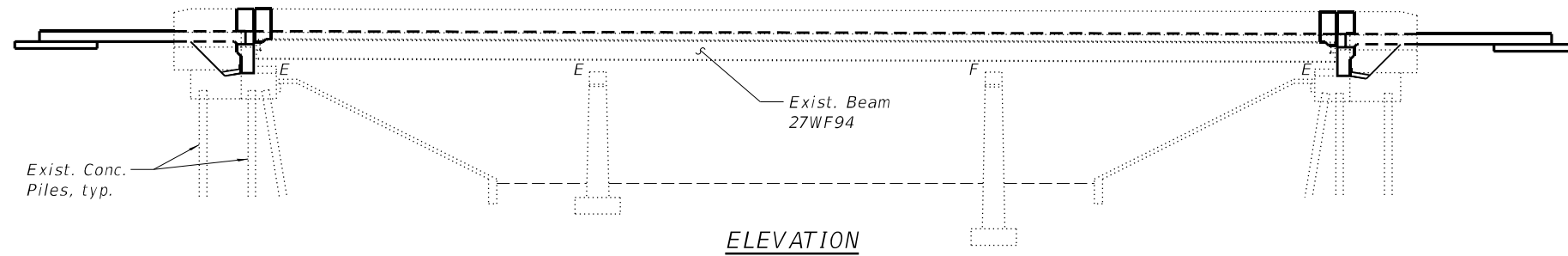
The proposed project consists of new expansion joints, new abutment backwalls, new approach slabs, deck drains preservation and scupper modification, bridge deck scarification, a new concrete overlay, and bridge deck patching. The traffic shall be maintained during the rehabilitation of both structures by Stage Construction.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)

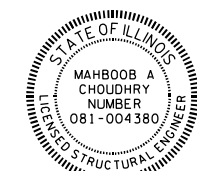
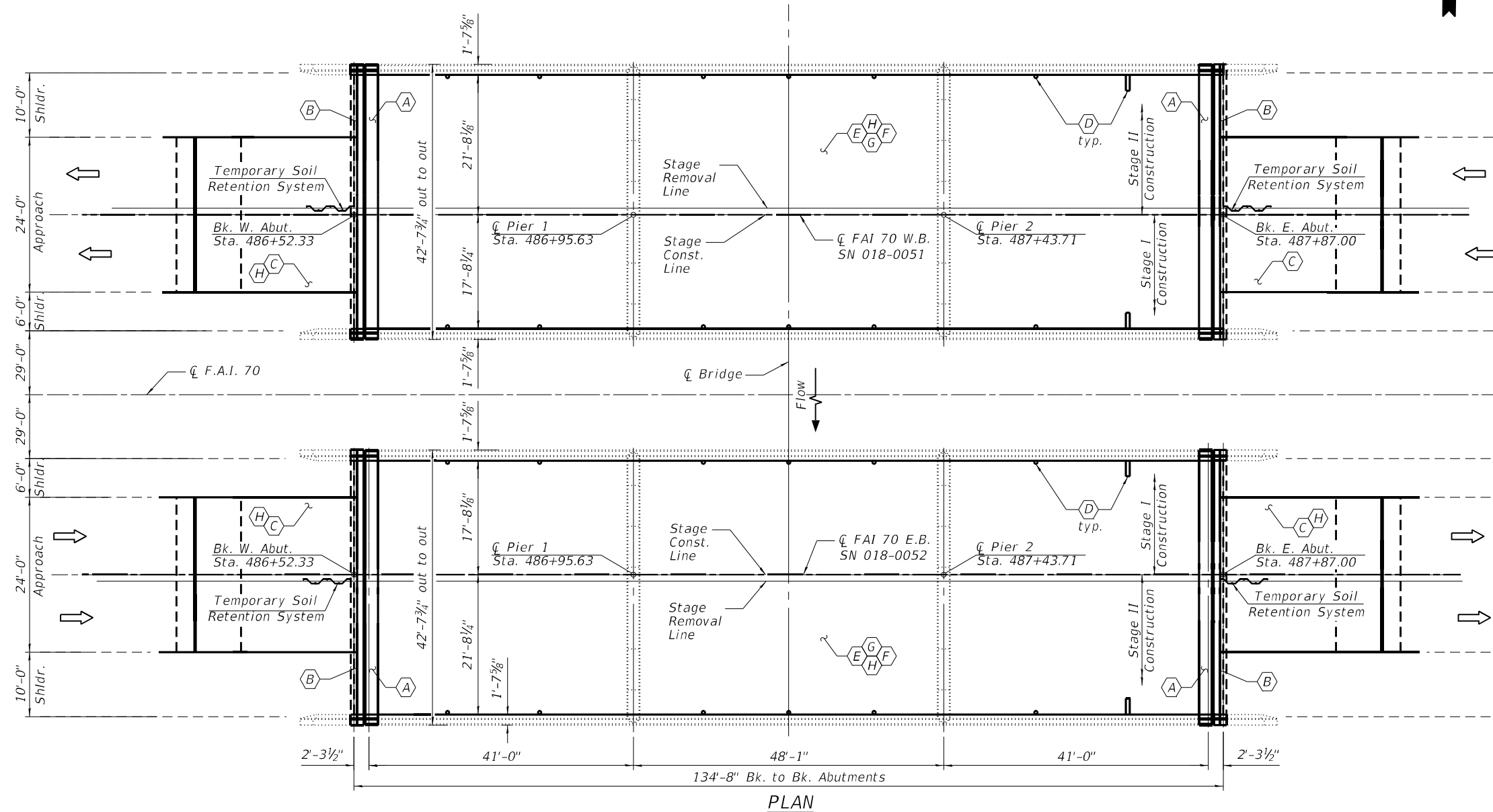
SCOPE OF WORK

- (A) - Remove Existing Expansion Joint and Install Preformed Joint Strip Seal (See Sheet 8-10 of 19)
- (B) - Remove & Replace Abutment Backwall (See Sheet 11-16 of 19)
- (C) - Remove and Replace Bridge Approach Slab (See Sheet 5-7 of 19)
- (D) - Deck Drain Preservation & Scupper Modification (See Sheet 17 of 19)
- (E) - Bridge Deck Scarification, 3/4"
- (F) - Install Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2" (See Sheet 2 of 19)
- (G) - Install Bridge Deck Patches. (See Sheet 3-4 of 19)
- (H) - Perform Diamond Grinding (Bridge Section) & Bridge Deck Grooving (Longitudinal)



STRUCTURE INDEX OF SHEETS

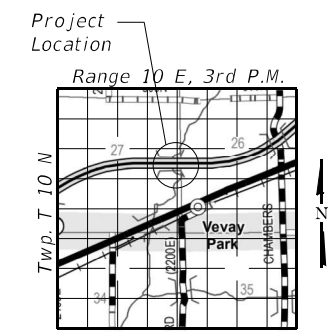
| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | General Plan & Elevation |
| 2 | General Notes, Bill of Material & Stage Construction Details |
| 3 | Bridge Deck Patching- SN 018-0051 |
| 4 | Bridge Deck Patching- SN 018-0052 |
| 5 | Bridge Approach Slab Details-I |
| 6 | Bridge Approach Slab Details-II |
| 7 | Bridge Approach Slab Details-III |
| 8 | Expansion Joint Removal Details |
| 9 | Expansion Joint Replacement Details |
| 10 | Preformed Joint Strip Seal Details |
| 11 | Abutment Backwall Removal Details-I |
| 12 | Abutment Backwall Removal Details-II |
| 13 | Abutment Backwall Removal Details-III |
| 14 | Abutment Backwall Repair Details-I |
| 15 | Abutment Backwall Repair Details-II |
| 16 | Abutment Backwall Repair Details-III |
| 17 | Deck Drain Preservation & Scupper Modification |
| 18 | Bar Splicer Assembly and Mechanical Splicer Details |
| 19 | Existing Scuppers Plan Sheet |



M. Choudhry

Dated **8-24-2022**

Mahboob A Choudhry
 Licensed Structural Engineer
 In Illinois No. 081-004380
 Expires: 11/30/2022



LOCATION SKETCH

MODEL: 018005174A71-001
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| | | | | | | | |
|---|--|--|--|---|---|--|--------------------|
| GREENE & BRADFORD, INC. OF SPRINGFIELD <small>CONSULTING ENGINEERS 3501 CARROLLTON DRIVE SPRINGFIELD, ILLINOIS 62711 PROFESSIONAL DESIGN FIRM NO. 18-001179 PROFESSIONAL SEAL NO. 081-004380 (217) 799-8844, 799-2277 (F)</small> | USER NAME = prakarshg PLOT SCALE = 0.1667" / in. PLOT DATE = 8/24/2022 | DESIGNED - KAS CHECKED - MAC DRAWN - PG CHECKED - MAC | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL PLAN & ELEVATION S.N. 018-0051 (WB) & S.N. 018-0052 (EB) | F.A.I. RTE. = 70 SECTION = D7 BRIDGE REPAIRS 2023-3 COUNTY = CUMBERLAND TOTAL SHEETS = 31 SHEET NO. = 11 | CONTRACT NO. 74A71 |
| | SHEET 01 OF 19 SHEETS | | ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included in CONCRETE REMOVAL.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 °F.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Prior to pouring the new concrete deck, all heavy and loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Bridge Deck Grooving (Longitudinal) shall be completed only after Diamond Grinding (Bridge Section) is completed.

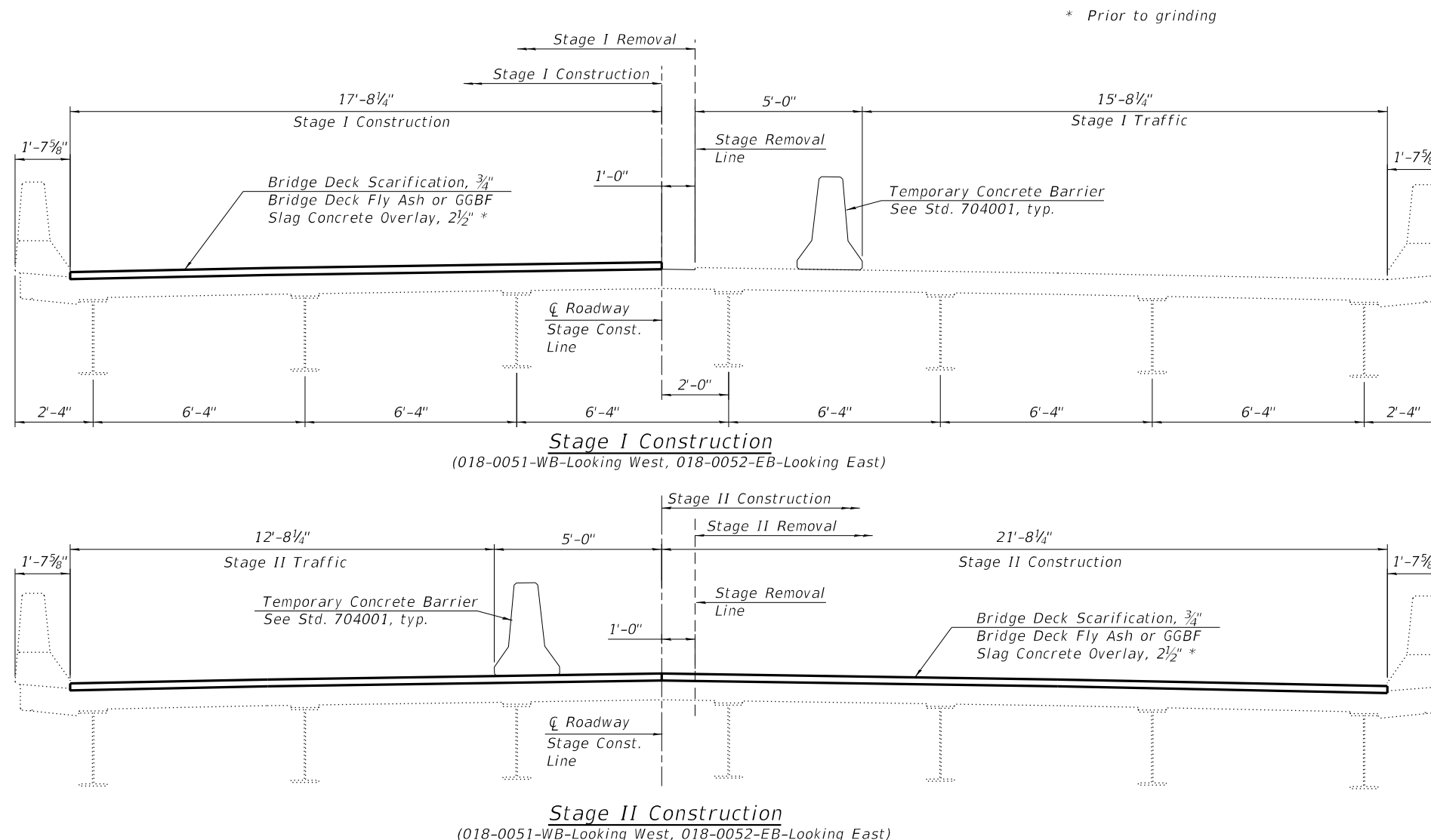
Protective Coat shall be applied to areas of Concrete Superstructure consisting of the front faces and tops of the parapets and wingwalls and the top surfaces of the expansion joint blockouts. Protective Coat shall also be applied to the top of the new concrete overlay and to Areas of Concrete Superstructure (Approach Slab) including the front faces and tops of the curbs.

Synthetic fibers should be added to the Bridge Deck Fly Ash or GGBF Slag Concrete Overlay. See Special Provisions.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SN 018-0051 | SN 018-0052 | TOTAL |
|---|---------|-------------|-------------|-------|
| Concrete Removal | Cu. Yd. | 25.7 | 25.7 | 51.4 |
| Concrete Structures | Cu. Yd. | 32.6 | 32.6 | 65.3 |
| Concrete Superstructures | Cu. Yd. | 13.0 | 13.0 | 26.0 |
| Concrete Superstructure (Approach Slab) | Cu. Yd. | 56.5 | 56.5 | 113.0 |
| Reinforcement Bars, Epoxy Coated | Pound | 26741 | 26741 | 53482 |
| Bar Splicers | Each | 300 | 300 | 600 |
| Preformed Joint Strip Seal | Foot | 83 | 83 | 166 |
| Drainage Scuppers to be adjusted | Each | 2 | 2 | 4 |
| ** Bridge Deck Scarification, 3/4" | Sq. Yd. | 556 | 556 | 1113 |
| ** Bridge Deck Fly Ash or GGBF Slag Concrete Overlay 2 1/2" | Sq. Yd. | 556 | 556 | 1113 |
| ** Bridge Deck Grooving (Longitudinal) | Sq. Yd. | 350 | 350 | 700 |
| ** Diamond Grinding (Bridge Section) | Sq. Yd. | 718 | 718 | 1436 |
| *** Protective Coat | Sq. Yd. | 726 | 726 | 1451 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 3 | 3 | 6 |
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 3 | 2 | 5 |
| Porous Granular Backfill | Cu. Yd. | 49.8 | 49.8 | 99.6 |
| Structure Excavation | Cu. Yd. | 36.6 | 36.6 | 73.2 |
| Temporary Soil Retention System | Sq. Ft. | 47.9 | 47.9 | 95.8 |
| Geocomposite Wall Drain | Sq. Yd. | 40 | 40 | 80 |
| Pipe Underdrains For Structures, 4" | Foot | 87 | 87 | 174 |

** See Special Provisions.
*** New Concrete and overlay areas



MODEL: 0180051-74A71-002
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GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
3503 CONSTITUTION DRIVE
SPRINGFIELD, ILLINOIS 62711
PROFESSIONAL DESIGN FIRM NO. 184601179
PROFESSIONAL SEAL NO. 054200086
(217) 7948844, 7944227 (F)

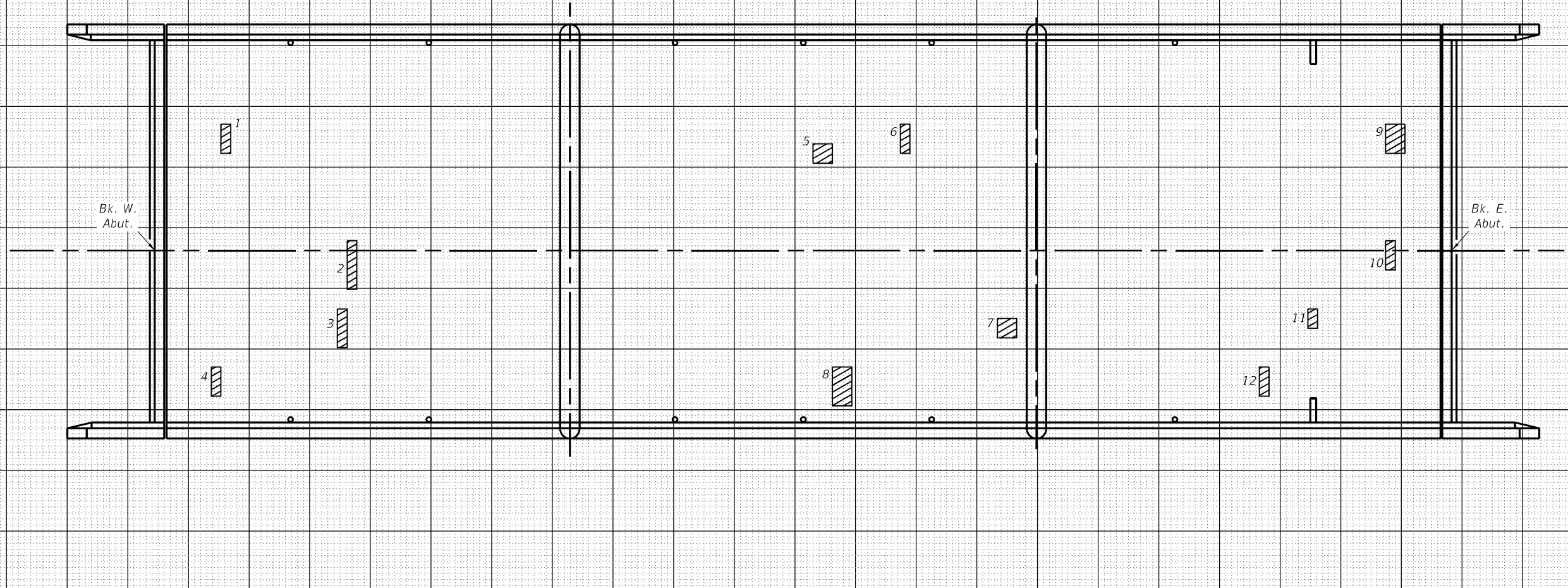
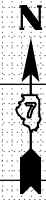
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| PLOT SCALE = 0.1667' / in. | CHECKED - MAC | REVISED - |
| PLOT DATE = 9/27/2022 | DRAWN - PG | REVISED - |
| | CHECKED - MAC | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIAL & STAGE CONST. DETAILS
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

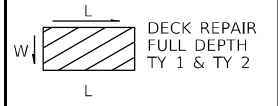
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------------------|------------|------------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 12 |
| CONTRACT NO. 74A71 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

018-0051 Bridge Patching



| PATCH NO. | SIZE | | DECK SLAB REPAIR (FD TY I) | DECK SLAB REPAIR (FD TY II) |
|------------------|--------|-------|----------------------------|-----------------------------|
| | LENGTH | WIDTH | SQ YD | SQ YD |
| 1 | 1.0 | 3.0 | 0.3 | |
| 2 | 1.0 | 5.0 | | 0.6 |
| 3 | 1.0 | 4.0 | 0.4 | |
| 4 | 1.0 | 3.0 | 0.3 | |
| 5 | 2.0 | 2.0 | 0.4 | |
| 6 | 1.0 | 3.0 | 0.3 | |
| 7 | 2.0 | 2.0 | 0.4 | |
| 8 | 2.0 | 4.0 | | 0.9 |
| 9 | 2.0 | 3.0 | | 0.7 |
| 10 | 1.0 | 3.0 | 0.3 | |
| 11 | 1.0 | 2.0 | 0.2 | |
| 12 | 1.0 | 3.0 | 0.2 | |
| TOTAL ROUNDS TO: | | | 3.0 | 3.0 |

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 12-2-2021
 SURVEY BY: DPM
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 3.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II)
 3.0 SQ YD

MODEL: 0180051-74A71-003
 FILE NAME: J:\2020\003\W04 3 2 Bridge Repairs In DTD\Drawings\0180051-74A71.dgn

| | | |
|------------------------------|----------------------|-----------|
| USER NAME = prakarshg | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - Dec. 2021 | REVISED - |

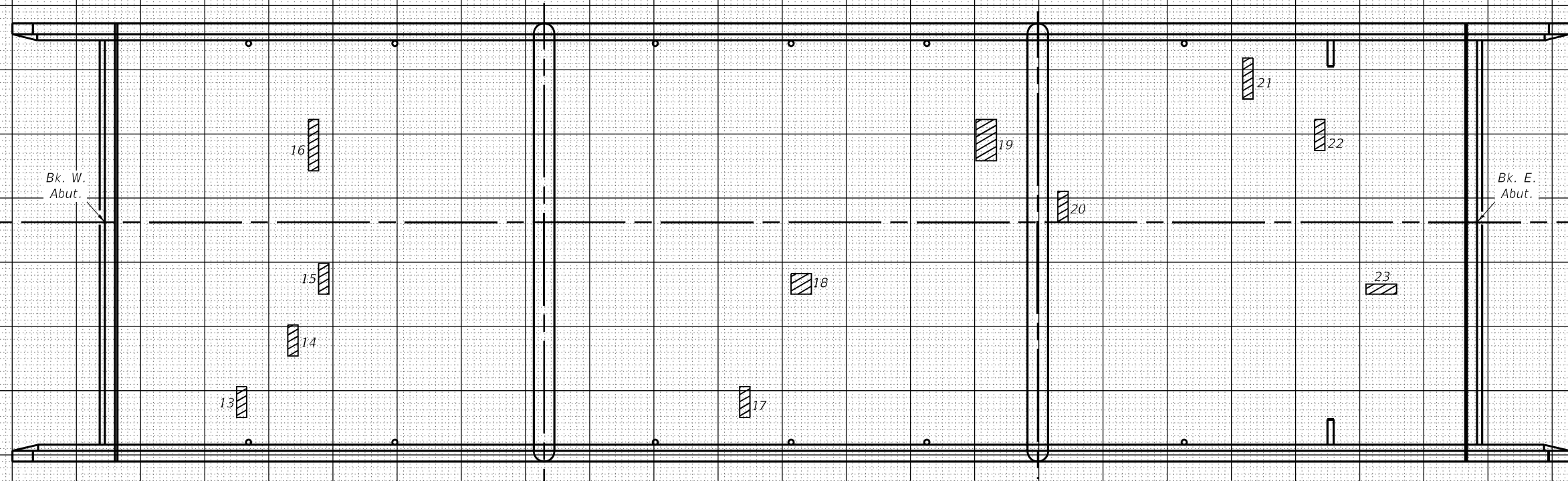
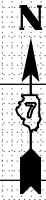
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING
 SN. 018-0051**

SCALE: SHEET 03 OF 19 SHEETS STA. TO STA.

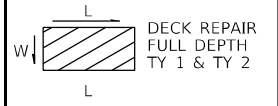
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIR 2023-3 | CUMBERLAND | 31 | 13 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

018-0052 Bridge Patching



| PATCH NO. | SIZE | | DECK SLAB REPAIR (FD TY I) SQ YD | DECK SLAB REPAIR (FD TY II) SQ YD |
|------------------|--------|-------|----------------------------------|-----------------------------------|
| | LENGTH | WIDTH | | |
| 13 | 1.0 | 3.0 | 0.3 | |
| 14 | 1.0 | 3.0 | 0.3 | |
| 15 | 1.0 | 3.0 | 0.3 | |
| 16 | 1.0 | 5.0 | | 0.6 |
| 17 | 1.0 | 3.0 | 0.3 | |
| 18 | 2.0 | 2.0 | 0.4 | |
| 19 | 2.0 | 4.0 | | 0.9 |
| 20 | 1.0 | 3.0 | 0.3 | |
| 21 | 1.0 | 4.0 | 0.4 | |
| 22 | 1.0 | 3.0 | 0.3 | |
| 23 | 3.0 | 1.0 | 0.3 | |
| TOTAL ROUNDS TO: | | | 3.0 | 2.0 |

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 12-2-2021
 SURVEY BY: DPM
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I) 3.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II) 2.0 SQ YD

MODEL: 0180051-74A71-001
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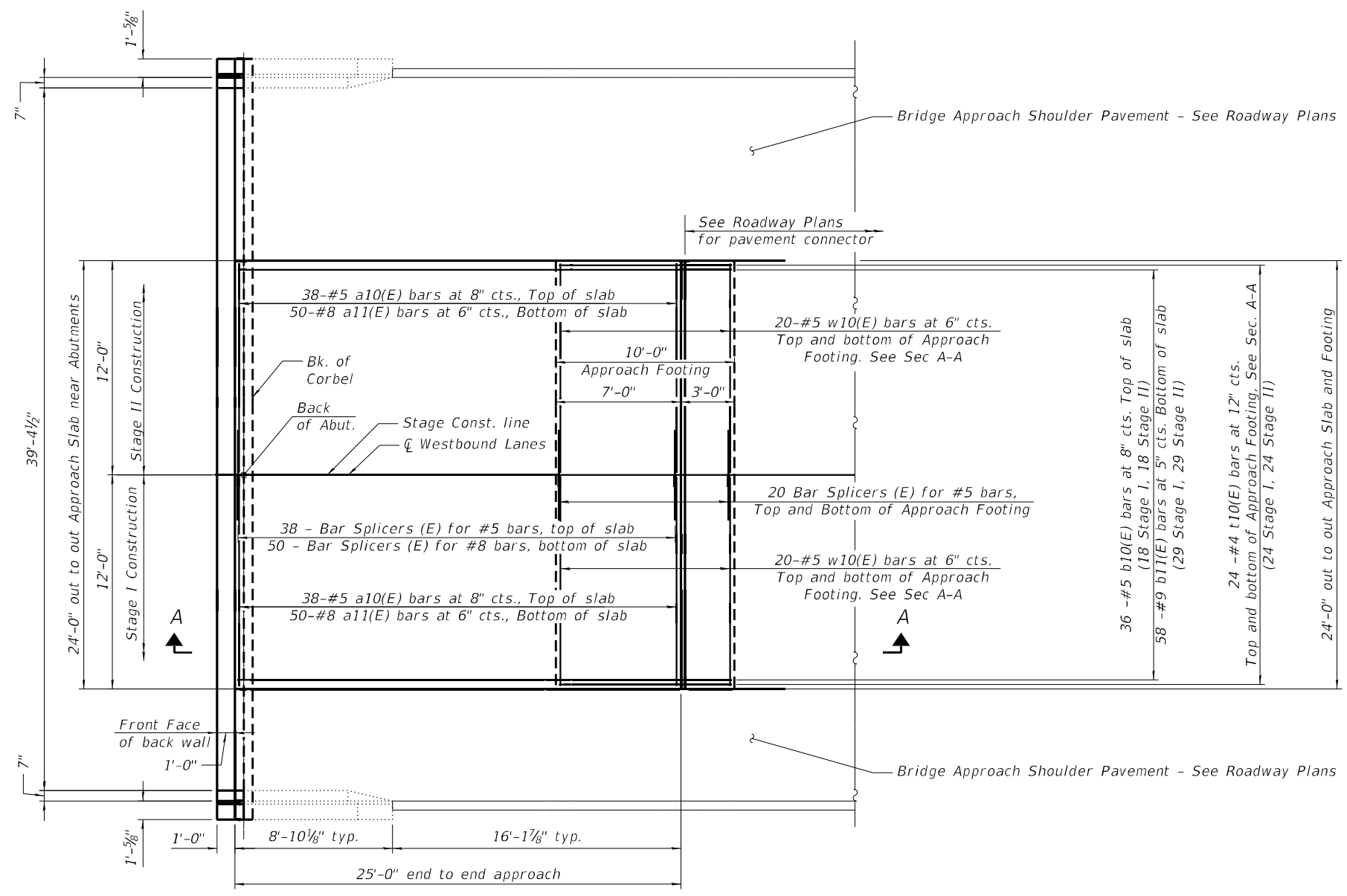
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|------------------------------|----------------------|-----------|
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| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - Dec. 2021 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
 SN. 018-0052

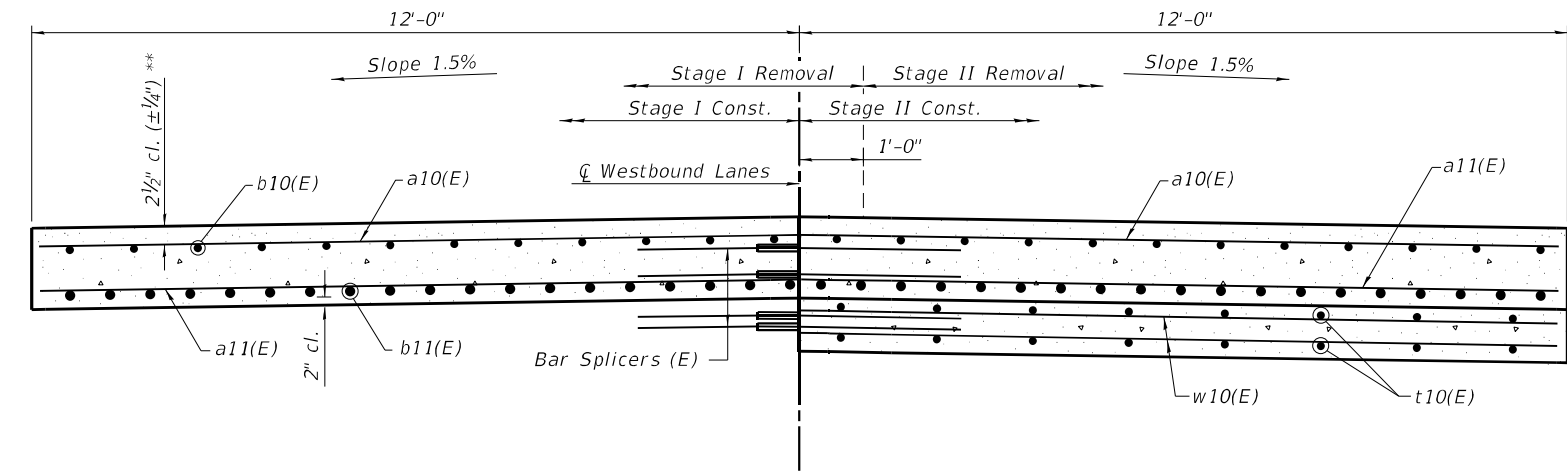
SCALE: SHEET 04 OF 19 SHEETS STA. TO STA.

| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIR 2023-3 | CUMBERLAND | 31 | 14 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PROPOSED PLAN

(East Abut. Shown, West Abut. similar by rotation)



CROSS SECTION

(Looking West)



* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

** Prior to grinding.

See Sheet 07 of 19 for Section A-A.

MODEL: 018005174A71-005
 FILE NAME: J:\201003_W0# 3. Bridge Repairs in D7\Drawings\018005174A71.dgn

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 3501 CASCADILLA DRIVE
 SPRINGFIELD, ILLINOIS 62711
 PROFESSIONAL DESIGN FIRM NO. 181-001179
 PROFESSIONAL SEAL NO. 000-00000000
 (217) 794-8844, 794-2277 (F)

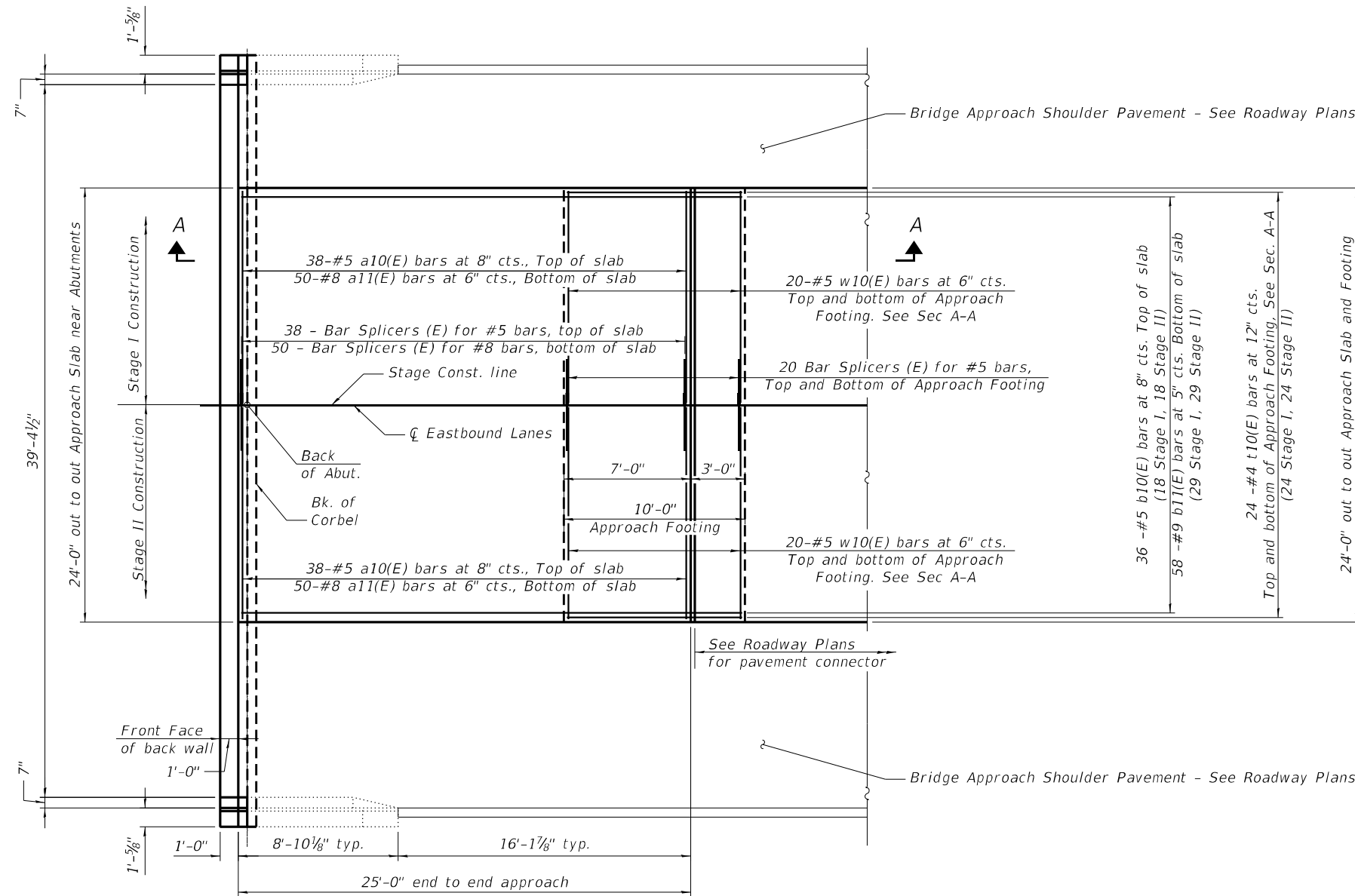
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|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| CHECKED - | MAC | REVISOR - | | REVISOR - | |
| PLOT SCALE = | 0.1667" / in. | DRAWN - | PG | REVISOR - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

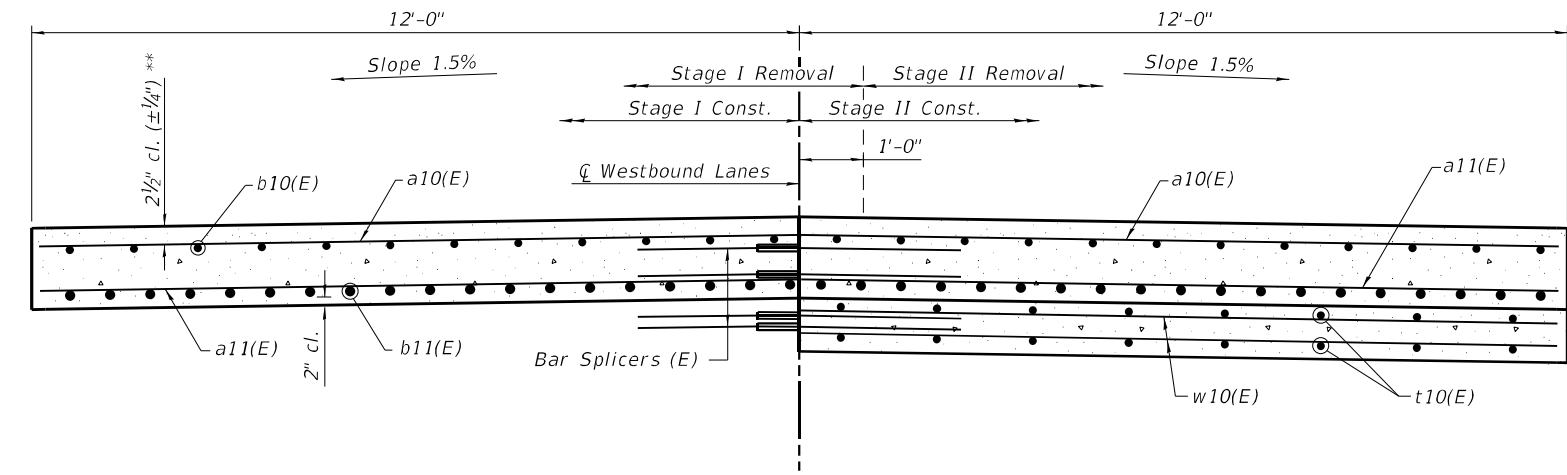
BRIDGE APPROACH SLAB DETAILS - I
S.N. 018-0051 (WB)

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 15 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

(Sheet 1 of 3)



PROPOSED PLAN
(East Abut. Shown, West Abut. similar by rotation)



CROSS SECTION
(Looking West)

(Sheet 2 of 3)

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

** Prior to grinding.

See Sheet 07 of 19 for Section A-A.



MODEL: 018005174A71-006
 FILE NAME: J:\201003_W0# 3. Bridge Repairs in D7\Drawings\018005174A71.dgn
 GREENE & BRADFORD CONSULTING ENGINEERS

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3501 CASCADILLA DRIVE
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PROFESSIONAL DESIGN FIRM NO. 181-001179
PROFESSIONAL SEAL NO. 000-000000000
(217) 794-8844, 794-2277 (F)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakashg | DESIGNED - | KAS | REVISED - | |
| CHECKED - | MAC | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS - II
S.N. 018-0052 (EB)

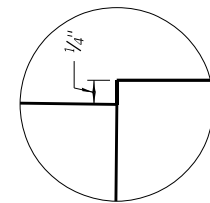
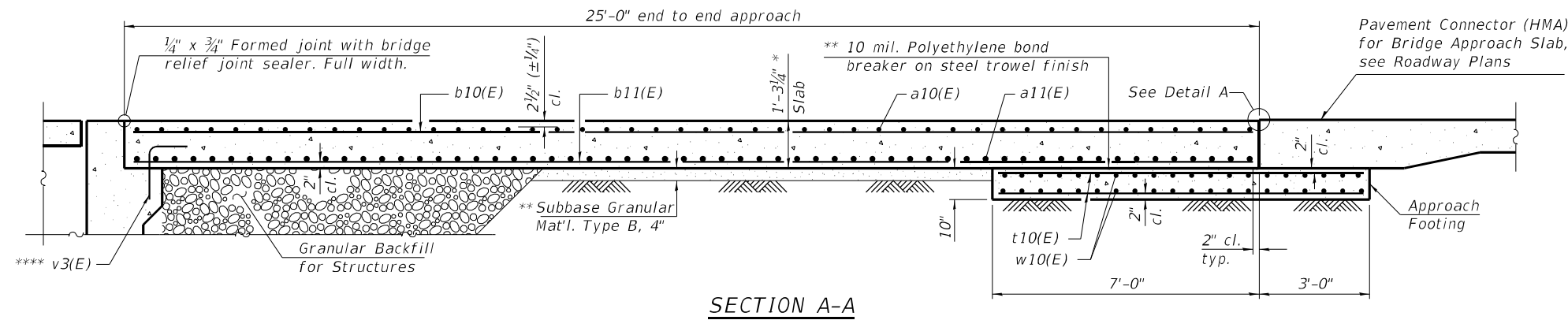
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|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 16 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 09 of 19.

* Prior to grinding

** Cost included with Concrete Superstructure (Approach Slab).

*** v3(E) shown on Sheet 14-16 of 19.



DETAIL A
 (After 1/4" Diamond Grinding)

FOUR APPROACHES
BILL OF MATERIAL
 (per abutment)

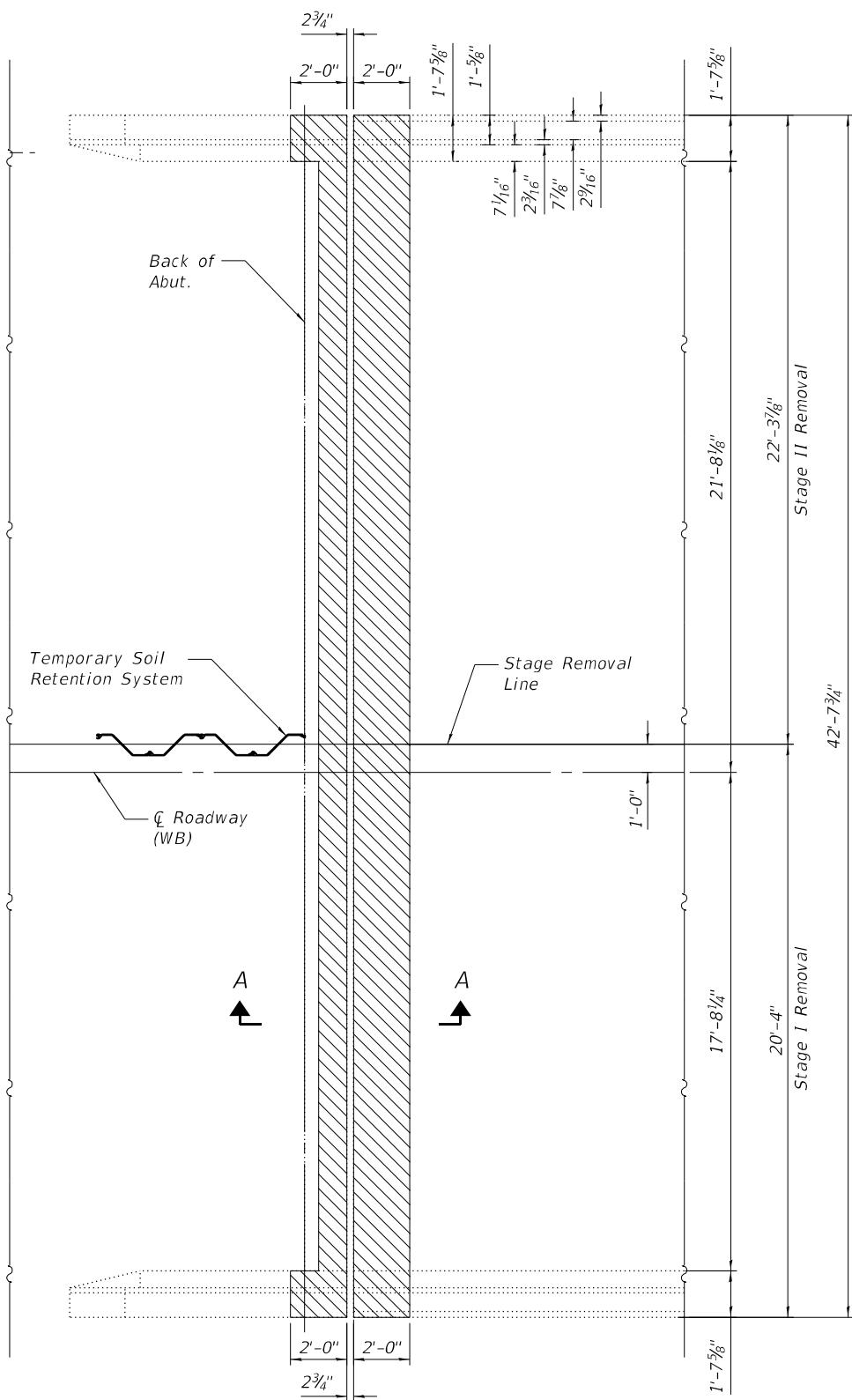
| Bar | Stage I | Stage II | Total | Size | Length | Shape |
|---|---------|----------|-------|------|---------|--------|
| a10(E) | 38 | 38 | 76 | #5 | 11'-9" | —— |
| a11(E) | 50 | 50 | 100 | #8 | 11'-9" | —— |
| b10(E) | 18 | 18 | 36 | #5 | 24'-8" | —— |
| b11(E) | 29 | 29 | 58 | #9 | 24'-8" | —— |
| t10(E) | 24 | 24 | 48 | #4 | 9'-8" | —— |
| w10(E) | 40 | 40 | 80 | #5 | 11'-9" | —— |
| Concrete Superstructure (Approach Slab) | | | | | Cu. Yd. | 28.0 |
| Concrete Structures | | | | | Cu. Yd. | 7.4 |
| Reinforcement Bars, Epoxy Coated | | | | | Pound | 11,150 |
| Bar Splicers, Epoxy Coated | | | | | Each | 128 |

(Sheet 3 of 3)

MODEL: 018005174A71-007
 FILE NAME: J:\20100.03_W0# 3. Bridge Repairs in D7\Drawings\018005174A71.dgn
 GREENE & BRADFORD CONSULTING ENGINEERS

| | | | | | | | | | | |
|---|----------------------------|----------------|-----------|---|---|-----------------------|------------------------------------|---------------------|-------------------|---------------------------|
| GREENE & BRADFORD, INC. OF SPRINGFIELD <small>CONSULTING ENGINEERS 3501 CASCADILLA DRIVE SPRINGFIELD, ILLINOIS 62711 PROFESSIONAL DESIGN FIRM NO. 18-001179 PROFESSIONAL SEAL NO. 000-0111-1988-0000 (217) 794-8844, 794-2222 (F)</small> | USER NAME = prakarshg | DESIGNED - KAS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | BRIDGE APPROACH SLAB DETAILS - III S.N. 018-0051 (WB) & S.N. 018-0052 (EB) | F.A.I. RTE. = 70 | SECTION = D7 BRIDGE REPAIRS 2023-3 | COUNTY = CUMBERLAND | TOTAL SHEETS = 31 | SHEET NO. = 17 |
| | PLOT SCALE = 0.1667' / in. | DRAWN - PG | REVISOR - | | | SHEET 07 OF 19 SHEETS | | CONTRACT NO. 74A71 | | ILLINOIS FED. AID PROJECT |
| | PLOT DATE = 8/24/2022 | CHECKED - MAC | REVISOR - | | | | | | | |

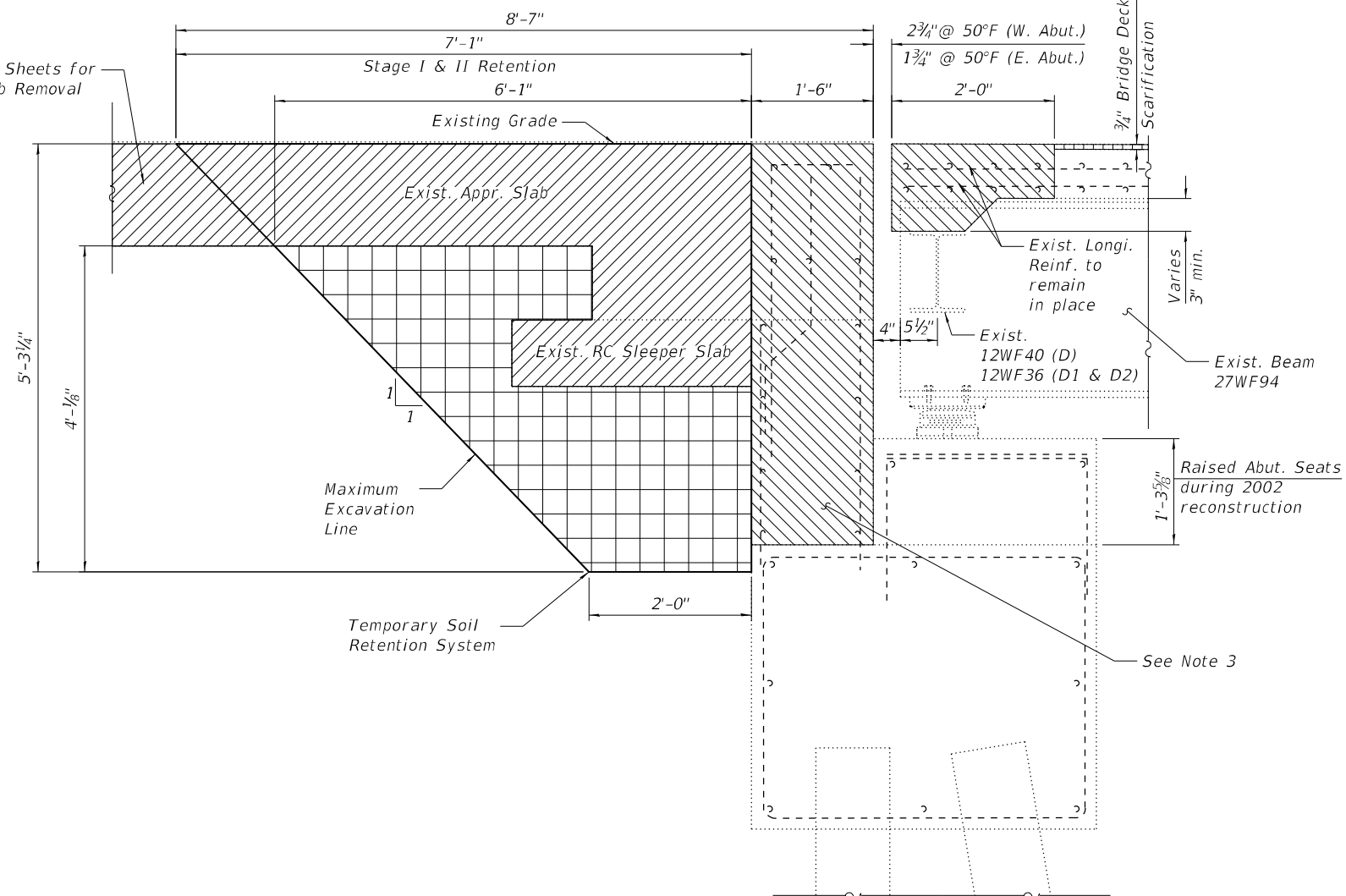
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CONCRETE REMOVAL PARTIAL PLAN

Westbound West Abutment shown, East Abutment similar by rotation;
Eastbound East Abutment similar, West Abutment similar by rotation

See Roadway Sheets for Approach Slab Removal



NOTE

1. Removal and Disposal of Exist. Expansion Joint is included in the cost of CONCRETE REMOVAL. The abutment backwall shall be removed down to the level of the original abutment seats.
2. For Removal quantities for Abutment Backwall, wingwall and hatch block, See sheet 11-13 of 19.

- Concrete Removal
- Approach Slab Removal (See Roadway Sheets)
- Bridge Deck Scarification
- Structure Excavation

**SECTION A-A
Removal**

**FOUR EXPANSION JOINTS
BILL OF MATERIAL**

| ITEM | UNIT | QUANTITY |
|---------------------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 13.0 |
| Structure Excavation | Cu. Yd. | 73.2 |
| Temporary Soil Retention System | Sq. Ft. | 95.8 |

** Concrete Removal Quantity is for end of the Deck removal, See Note 3

MODEL: 018005174A71-008
FILE NAME: J:\201003_WB# 3_Bridge Repairs in D7\Drawings\018005174A71.dgn

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PROFESSIONAL DESIGN FIRM NO. 181-001178
PROFESSIONAL SEAL NO. 018-001178
(217) 794-8844, 794-2223 (F)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667" / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL DETAILS
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)**

SHEET 08 OF 19 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 18 |

CONTRACT NO. 74A71
ILLINOIS FED. AID PROJECT

See Roadway Plans for Bridge Approach Shoulder Pavement

See Sheet 14-16 of 19 for Hatch Block & Abut. Backwall Replacement Details

See Sheet 5-7 of 19 for Approach Slab Details

Back of Abut.
Back of Corbel

Cl Roadway (WB)

B

B

JOINT REPLACEMENT PLAN

Westbound West Abutment shown, East Abutment similar by rotation;
Eastbound East Abutment similar, West Abutment similar by rotation

3 - #6 a3(E) bars @ ±10" cts. Top of Deck
3 - #4 d(E) bars @ ±10" cts. (Out. Face)
3 - #5 d1(E) bars @ ±10" cts. (In. Face)

2'-0" 1'-11 7/8" 1'-7 7/8" 1'-5 7/8" 1'-7 7/8"

7 1/16" 2 7/16" 7 7/8" 2 9/16"

4 - #5 a1(E) bars @ ±6 1/2" cts. Top & Bottom

Stage Construction Line

4 - Bar Splicers for #5 Bars Top & Bottom

4 - #5 a(E) bars @ ±6 1/2" cts. Top & Bottom

18 - #5 x(E) bars @ ±12" cts.

22 - #5 x(E) bars @ ±12" cts.

18 - #5 x(E) bars @ ±12" cts.

23'-3 3/8" Stage II Construction

19'-4" Stage I Construction

21'-8 1/4"

17'-8 1/4"

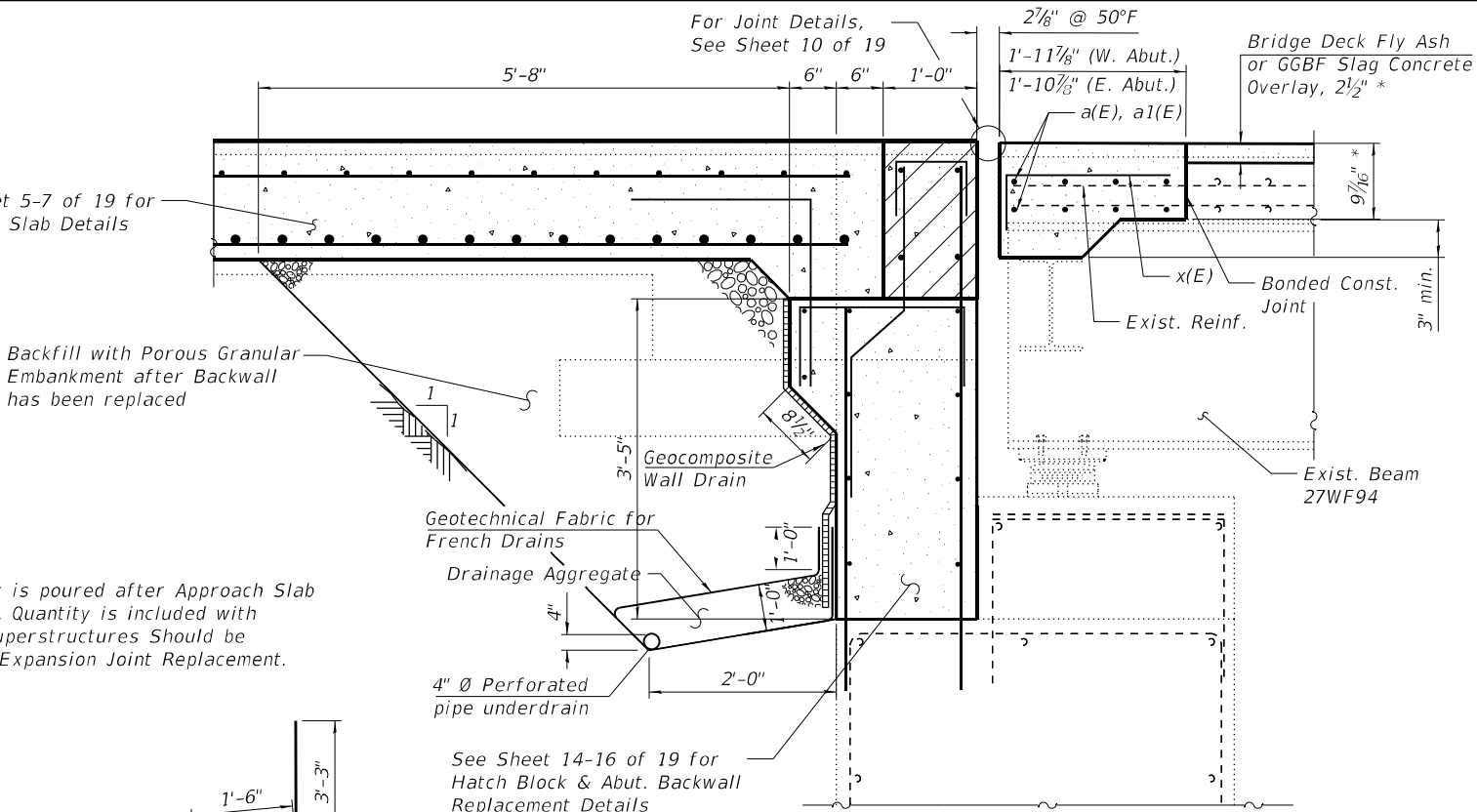
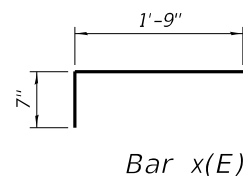
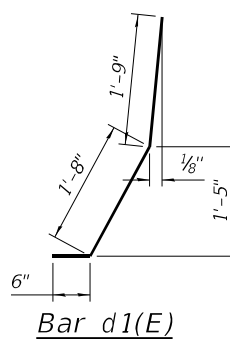
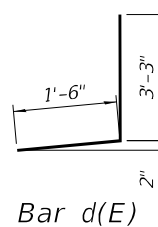
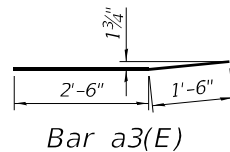
42'-7 3/4"

See Sheet 5-7 of 19 for Approach Slab Details

Backfill with Porous Granular Embankment after Backwall has been replaced

NOTE

- Hatch Block is poured after Approach Slab is complete. Quantity is included with Concrete Superstructures Should be billed with Expansion Joint Replacement.

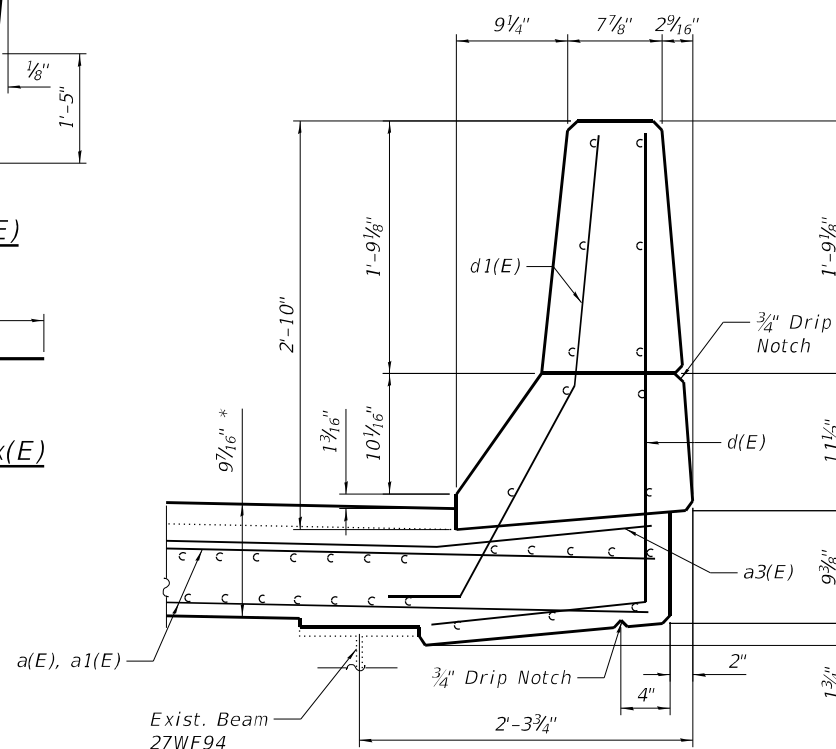


SECTION B-B
Repair

* Prior to Grinding

FOUR EXPANSION JOINTS
BILL OF MATERIAL

| BAR | NO. OF BARS | TOTAL | SIZE | LENGTH | SHAPE |
|----------------------------------|-------------|----------|------|---------|-------|
| | STAGE I | STAGE II | | | |
| a(E) | 32 | 32 | #5 | 19'-0" | — |
| a1(E) | 32 | 32 | #5 | 23'-0" | — |
| a3(E) | 12 | 12 | #6 | 4'-0" | — |
| d(E) | 12 | 12 | #4 | 4'-9" | J |
| d1(E) | 12 | 12 | #5 | 3'-11" | J |
| x(E) | 72 | 88 | #5 | 2'-4" | L |
| Concrete Superstructures | | | | Cu. Yd. | 13.0 |
| Reinforcement Bars, Epoxy Coated | | | | Pound | 2111 |
| Bar Splicers | | | | Each | 32 |
| Porous Granular Backfill | | | | Cu. Yd. | 99.6 |
| Geocomposite Wall Drain | | | | Sq. Yd. | 80 |
| Pipe Underdrains for Structures | | | | Foot | 174 |



SECTION THRU BRIDGE DECK PARAPET

MODEL: 018005174A71-009
FILE NAME: J:\201003_W0# 3. Bridge Repairs in D7\Drawings\018005174A71.dgn

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CONSULTING ENGINEERS
3501 COLUMBIA DRIVE
SPRINGFIELD, ILLINOIS 62711
PROFESSIONAL DESIGN FIRM NO. 18-001179
PROFESSIONAL SEAL NO. 018-001179 (19) 794884, 794827 (9)

| | | | | | |
|--------------|---------------|-------------|-----|-----------|--|
| USER NAME = | prakarsgh | DESIGNED - | KAS | REVISED - | |
| CHECKED - | MAC | REVISIONS - | | | |
| PLOT SCALE = | 0.1667" / in. | DRAWN - | PG | REVISED - | |
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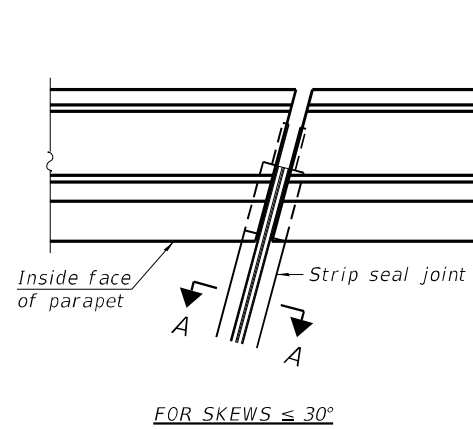
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

SHEET 09 OF 19 SHEETS

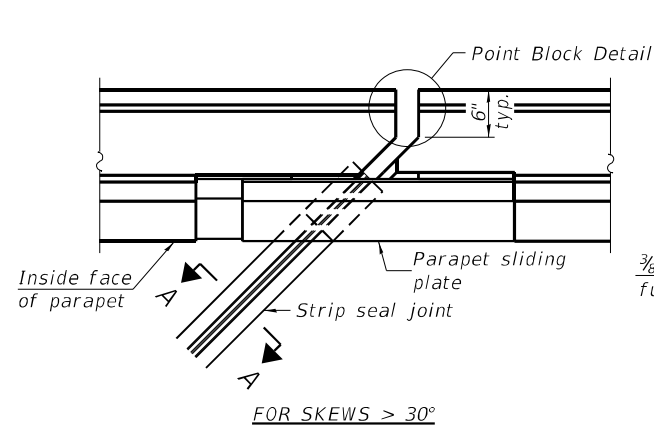
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 19 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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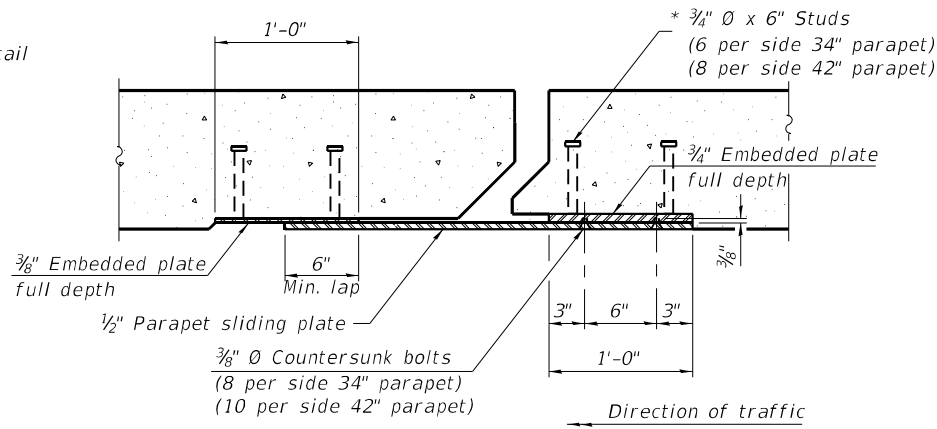
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

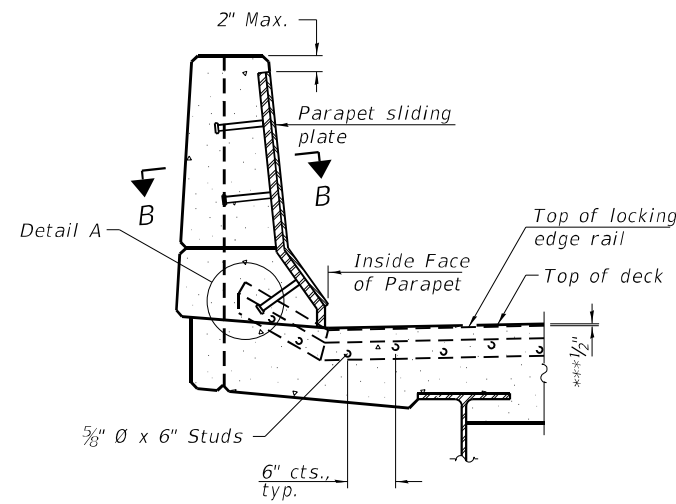


FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

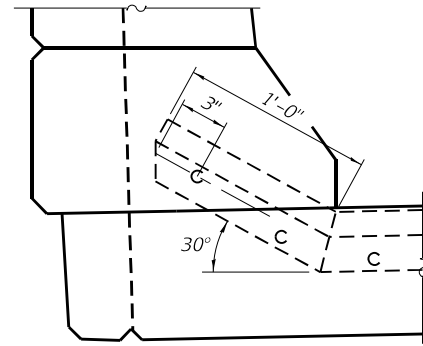


SECTION B-B



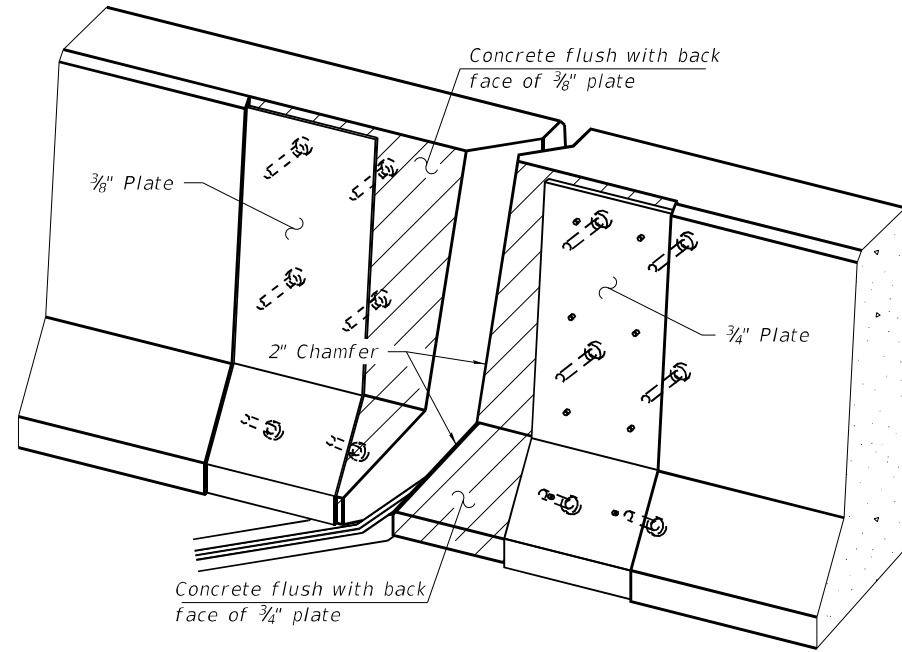
ELEVATION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

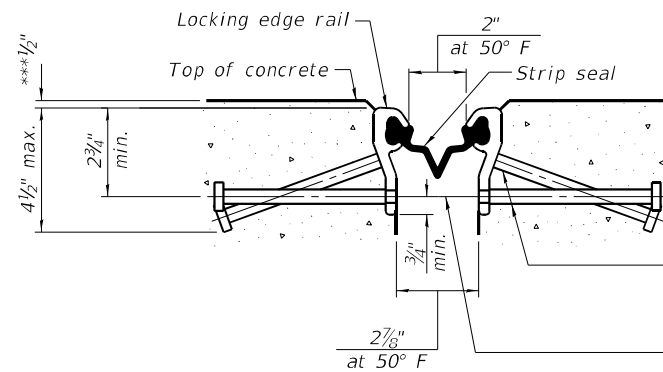


DETAIL A

*** Prior to 1/4" Grinding



TRIMETRIC VIEW
(Showing embedded plates only)



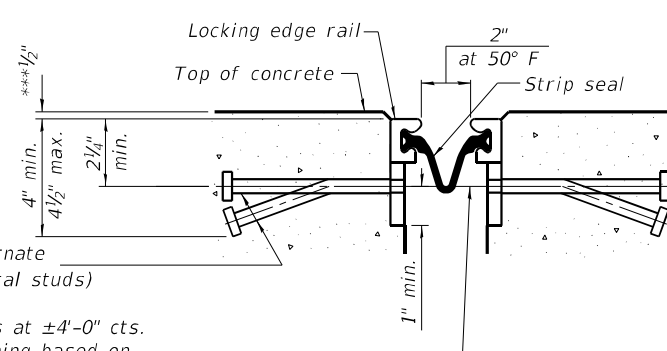
SHOWING ROLLED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

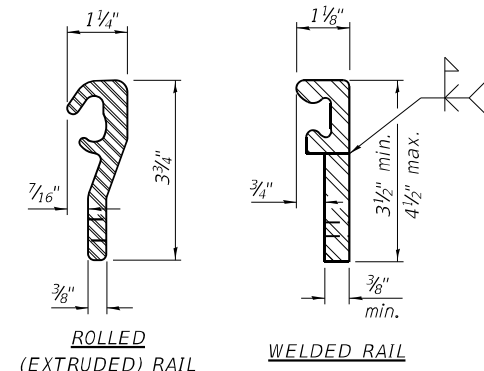
3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

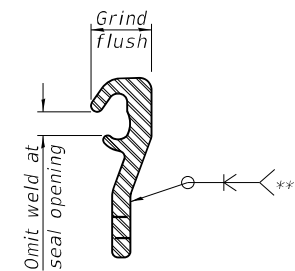


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

(per bridge)

| Item | Stage I | Stage II | Unit | Total |
|----------------------------|---------|----------|------|--------|
| Preformed Joint Strip Seal | 37'-6" | 45'-6" | Foot | 83'-0" |

MODEL: 018005174A71-010
FILE NAME: J:\201003_W0# 3. 2. Bridge Repairs in D7\Drawings\018005174A71.dgn

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CONSULTING ENGINEERS
3501 CONCURRENCE DRIVE
SPRINGFIELD, ILLINOIS 62711
PROFESSIONAL DESIGN FIRM NO. 181-001178
PROFESSIONAL SEAL NO. 018-005178 (219) 794-8844, 794-4223 (F)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakarsgh | DESIGNED - | KAS | REVISED - | |
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| PLOT DATE = | 8/24/2022 | DRAWN - | PG | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

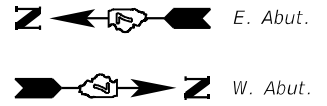
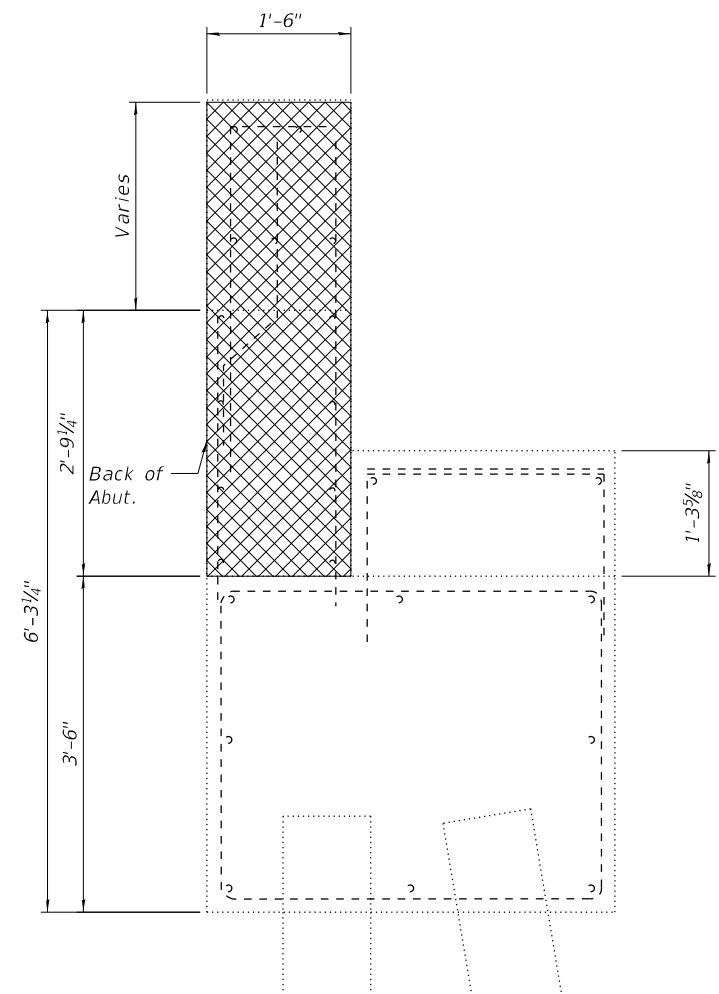
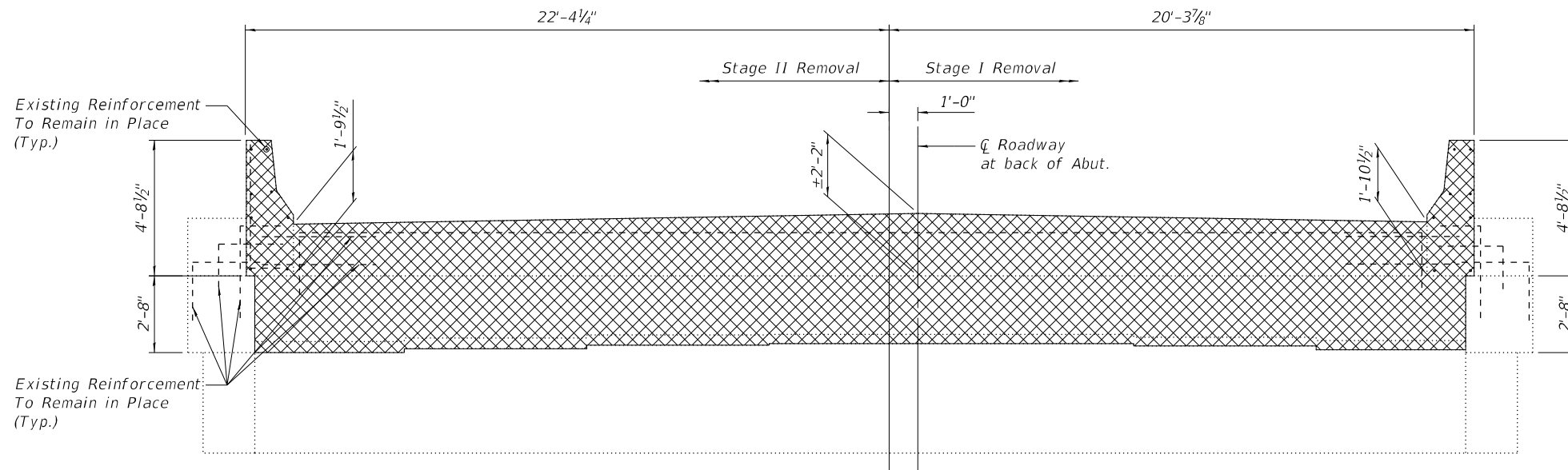
PREFORMED JOINT STRIP SEAL DETAILS
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

SHEET 10 OF 19 SHEETS

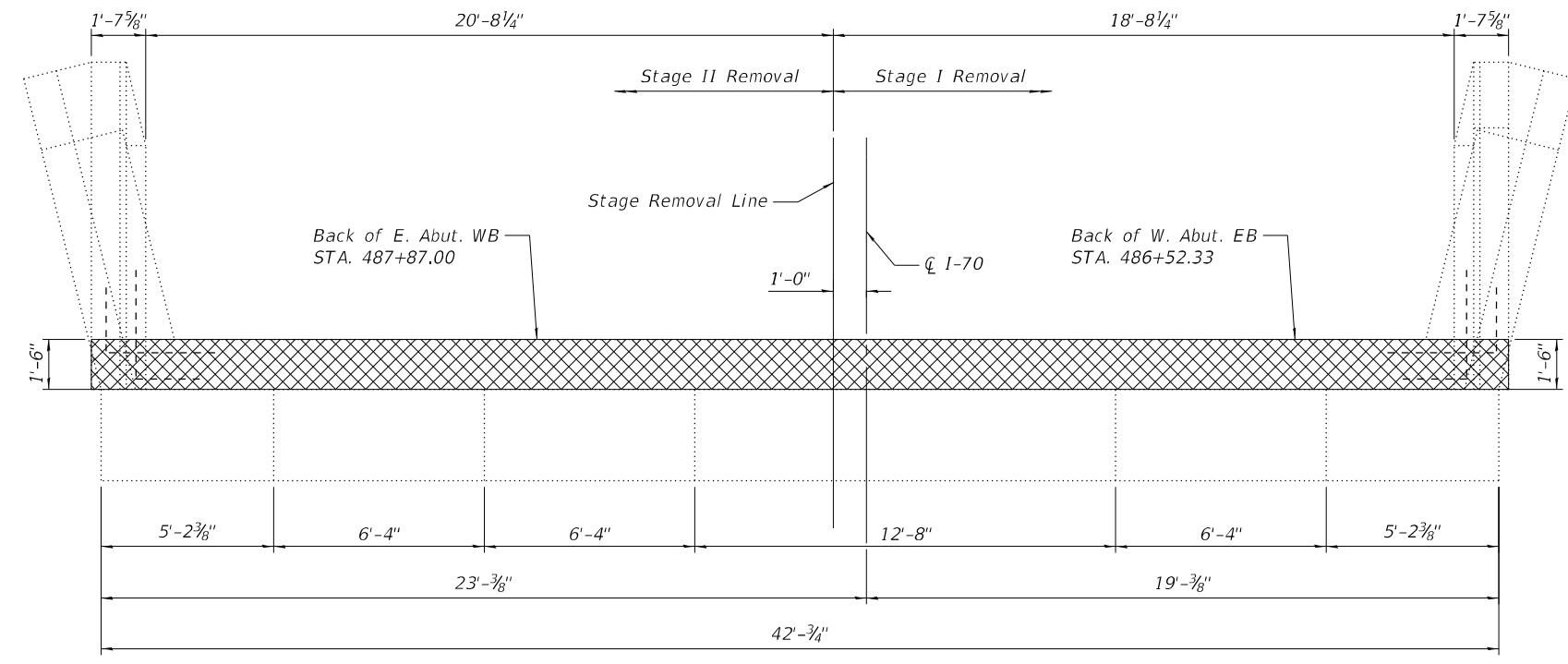
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|---------------------------|--------------------------|------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 20 |
| ILLINOIS FED. AID PROJECT | | | | |

CONTRACT NO. 74A71

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ABUTMENT BACKWALL REMOVAL ELEVATION
 (East Abutment SN 018-0051 WB Looking East)
 (West Abutment SN 018-0052 EB Looking West)



ABUTMENT BACKWALL REMOVAL PLAN
 (East Abutment SN 018-0051 WB)
 (West Abutment SN 018-0052 EB)

NOTES

1. Cross-Hatched area Indicates Removal.
2. Existing horizontal reinforcement which extends from the wingwalls into the removal area is to be preserved, cleaned and incorporated into the new construction in accordance with Section 501.03 of the Standard Specifications. Cost included in CONCRETE REMOVAL.
3. Existing vertical bars in backwall shall be cut off and covered with a layer of epoxy. Cost included in CONCRETE REMOVAL.
4. Concrete Removal Quantity of Entire WB East Abut. & EB West Abut. Backwall, Hatch Blocks is included in Bill of Material.

WESTBOUND EAST ABUT. & EASTBOUND WEST ABUT. BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 19.2 |

MODEL: 018005174A71-011
 FILE NAME: J:\201003_W0# 3. Bridge Repairs in D7\Drawings\0180051-74A71.dgn
 8/24/2022 8:30:16 AM

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 3501 CASCADILLA DRIVE
 SPRINGFIELD, ILLINOIS 62711
 PROFESSIONAL DESIGN FIRM NO. 18-001178
 PROFESSIONAL SEAL NO. 001-111-00000000
 (217) 794-8444, 794-4223 (F)

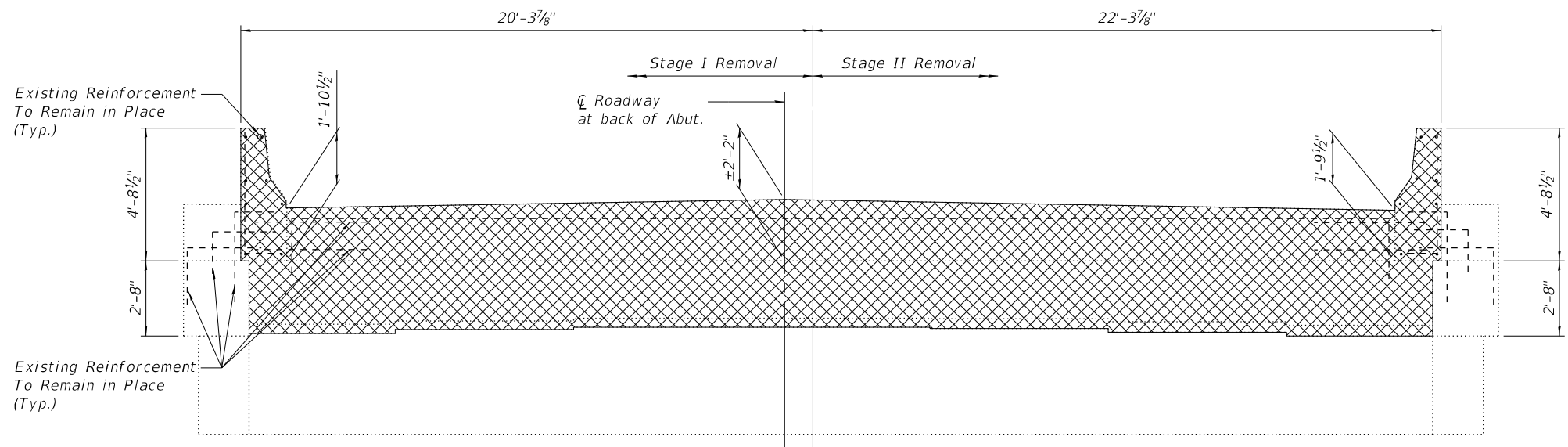
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| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

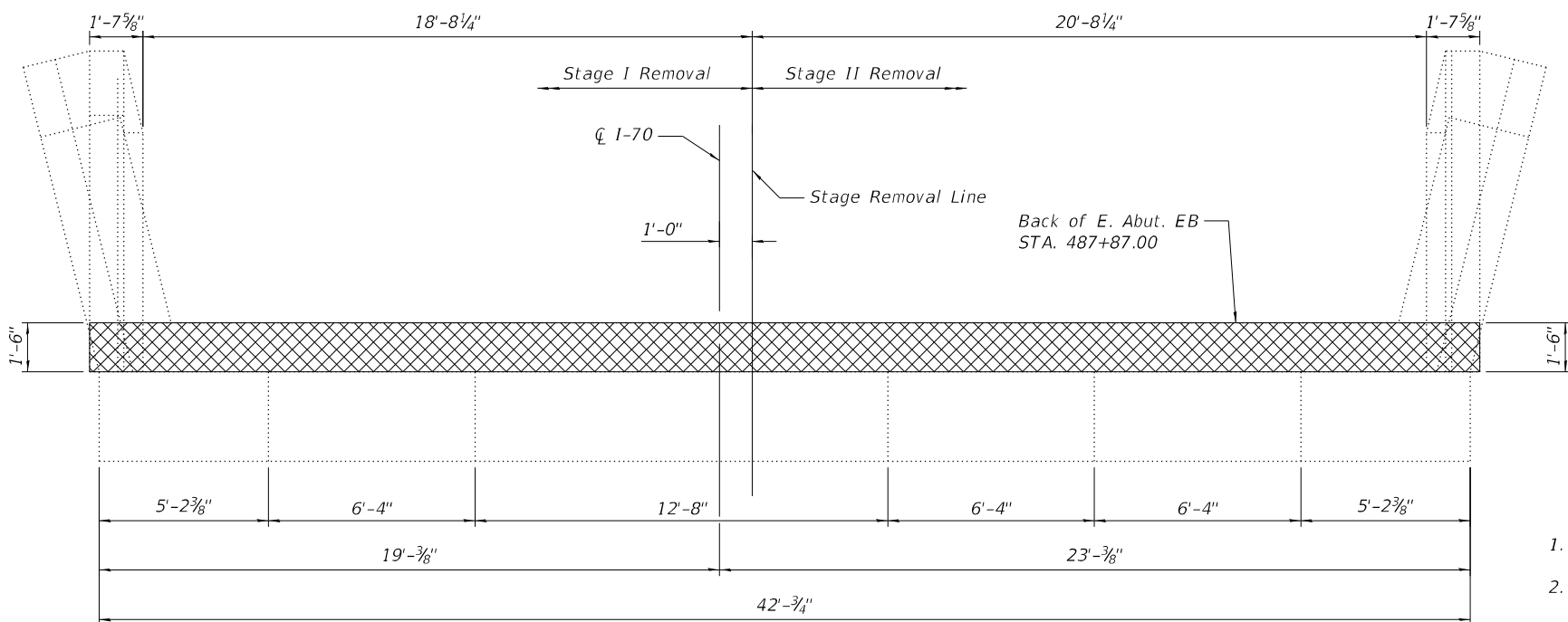
**ABUTMENT BACKWALL REMOVAL DETAILS - I
 S.N. 018-0051 (WB) & S.N. 018-0052 (EB)**

SHEET 11 OF 19 SHEETS

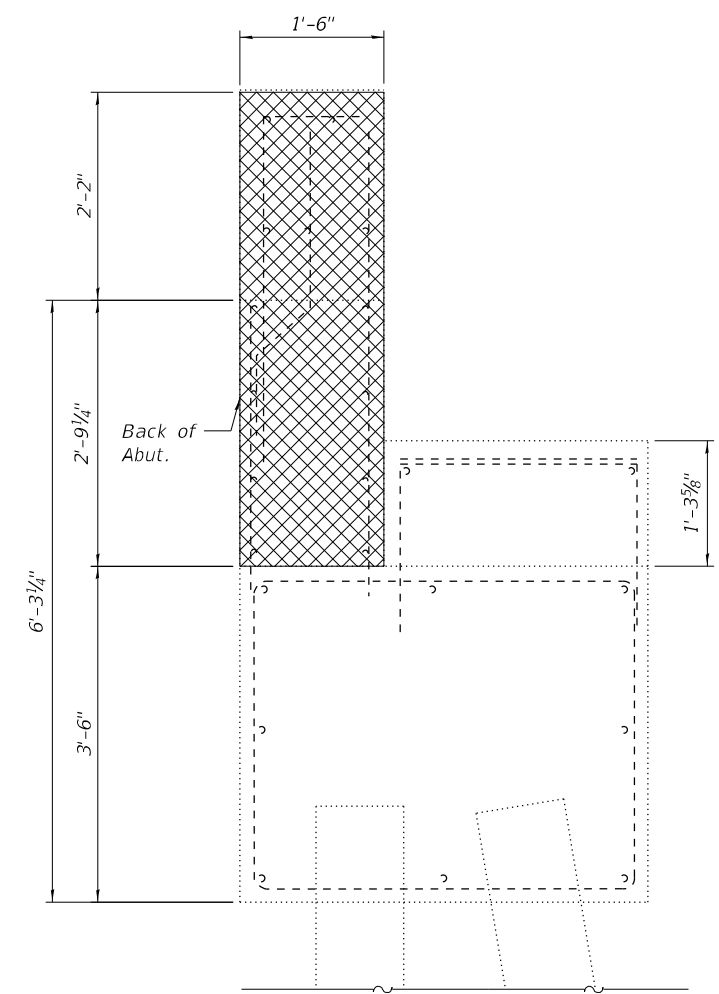
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 21 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



ABUTMENT BACKWALL REMOVAL ELEVATION
(East Abutment SN 018-0052 EB Looking East)



ABUTMENT BACKWALL REMOVAL PLAN
(East Abutment SN 018-0052 EB)



SECTION THRU ABUTMENT
Removal

NOTES

1. Cross-Hatched area Indicates Removal.
2. Existing horizontal reinforcement which extends from the wingwalls into the removal area is to be preserved, cleaned and incorporated into the new construction in accordance with Section 501.03 of the Standard Specifications. Cost included in CONCRETE REMOVAL.
3. Existing vertical bars in backwall shall be cut off and covered with a layer of epoxy. Cost included in CONCRETE REMOVAL.
4. Concrete Removal Quantity of Entire EB East Abut. Backwall, Hatch Blocks and wingwall is included in Bill of Material.

**EASTBOUND EAST ABUT.
BILL OF MATERIAL**

| ITEM | UNIT | QUANTITY |
|------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 9.6 |

MODEL: 018005174A71-012
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8/24/2022 8:30:52 AM

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
3501 CASCADILLA DRIVE
SPRINGFIELD, ILLINOIS 62711
PROFESSIONAL DESIGN FIRM NO. 18-00179
(217) 794-8844, 794-2277 (F)

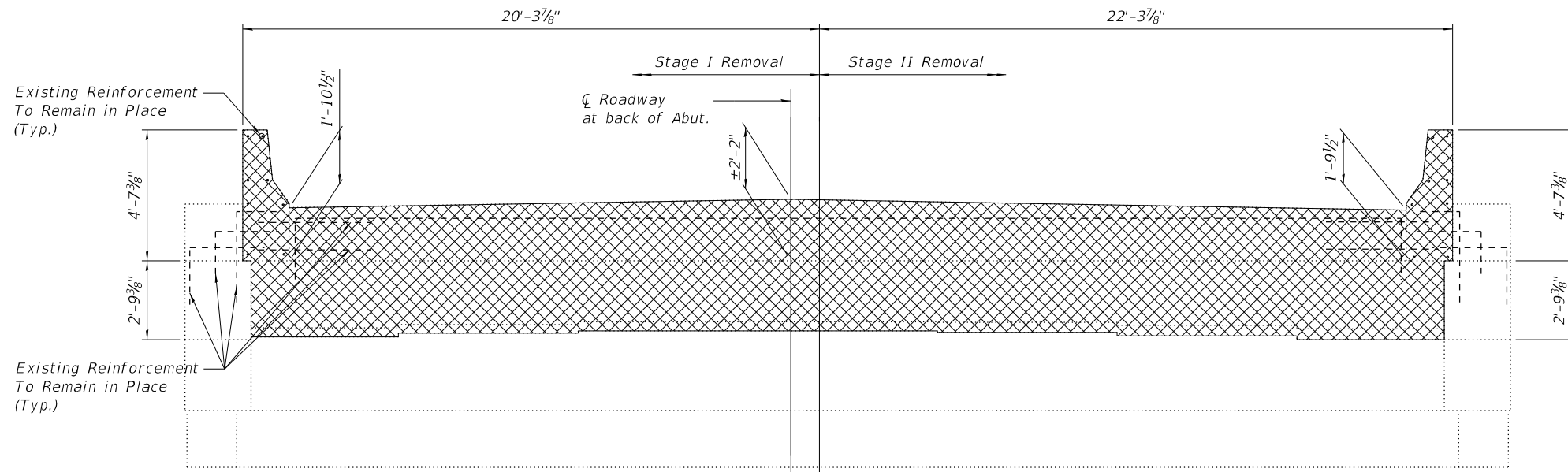
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| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

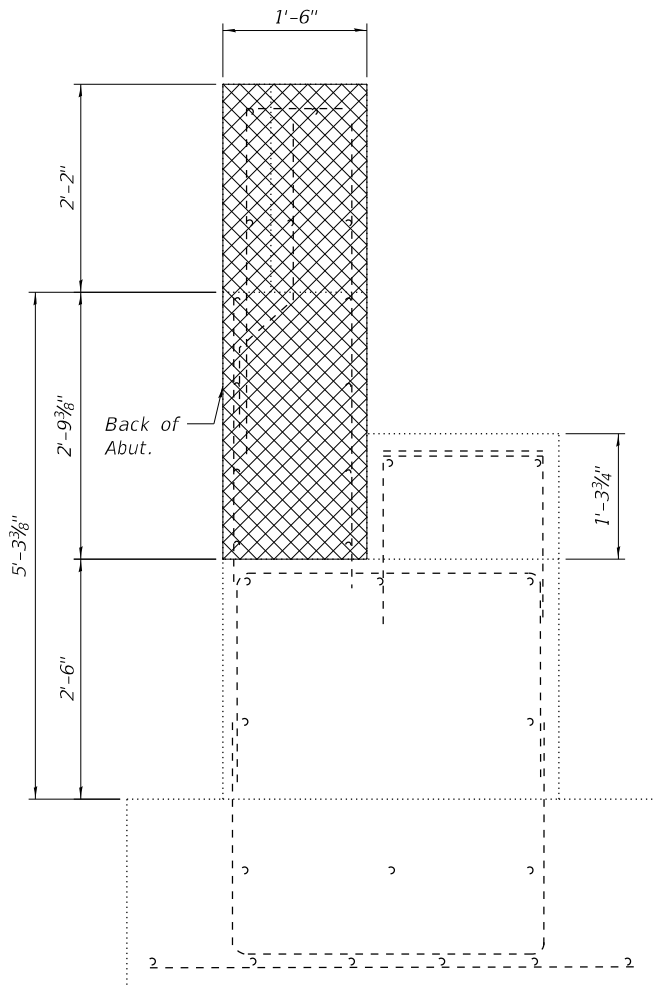
**ABUTMENT BACKWALL REMOVAL DETAILS - II
S.N. 018-0052 (EB)**

SHEET 12 OF 19 SHEETS

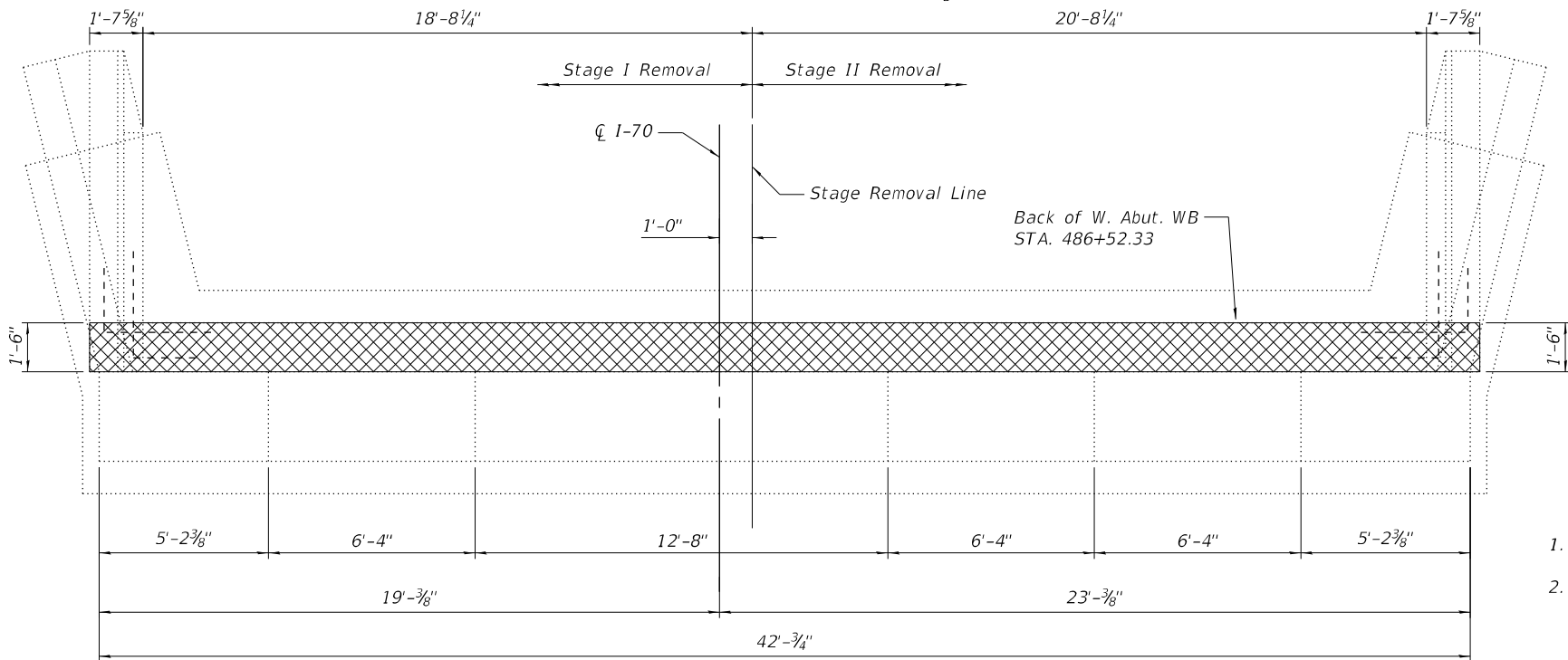
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 22 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



ABUTMENT BACKWALL REMOVAL ELEVATION
(West Abutment SN 018-0051 WB Looking West)



SECTION THRU ABUTMENT
Removal



ABUTMENT BACKWALL REMOVAL PLAN
(East Abutment SN 018-0052 EB)

NOTES

1. Cross-Hatched area Indicates Removal.
2. Existing horizontal reinforcement which extends from the wingwalls into the removal area is to be preserved, cleaned and incorporated into the new construction in accordance with Section 501.03 of the Standard Specifications. Cost included in CONCRETE REMOVAL.
3. Existing vertical bars in backwall shall be cut off and covered with a layer of epoxy. Cost included in CONCRETE REMOVAL.
4. Concrete Removal Quantity of Entire WB West Abut. Backwall, Hatch Blocks and wingwall is included in Bill of Material.

WESTBOUND WEST ABUT.
BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 9.6 |

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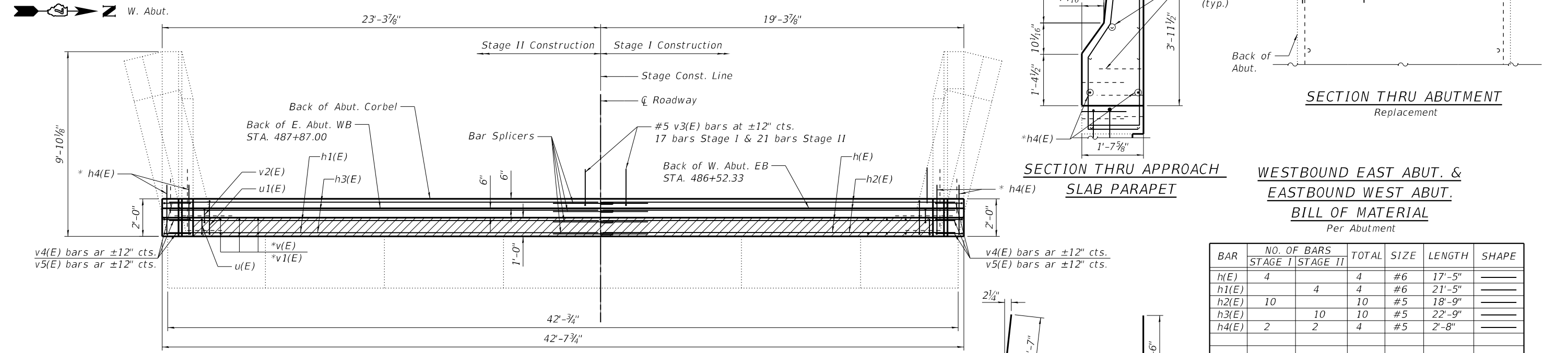
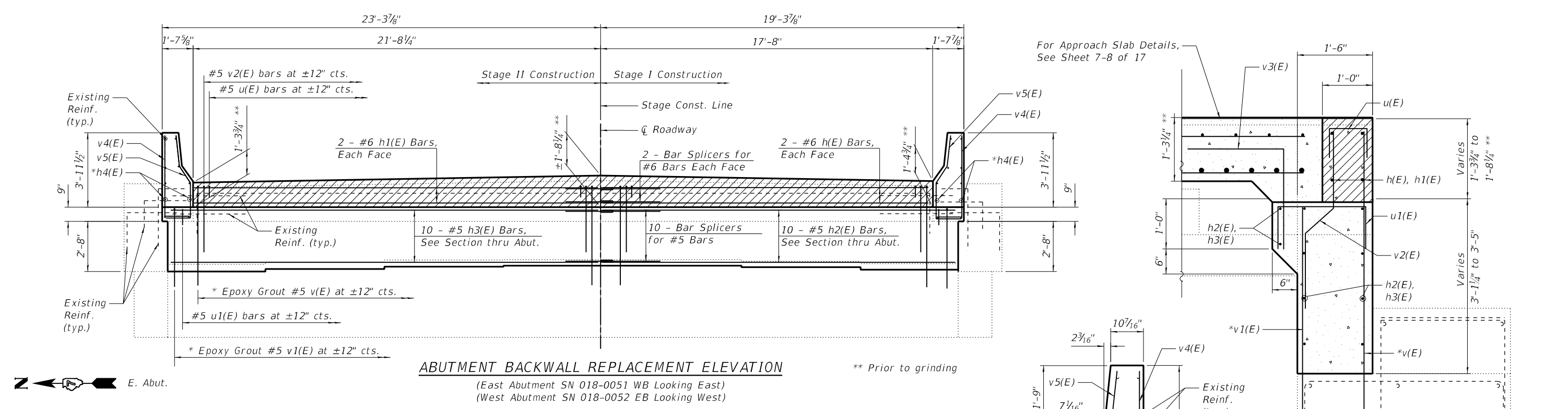
GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
3501 CASCADILLA DRIVE
SPRINGFIELD, ILLINOIS 62711
PROFESSIONAL DESIGN FIRM NO. 18-001179
PROFESSIONAL SEAL NO. 018-001179 (19)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

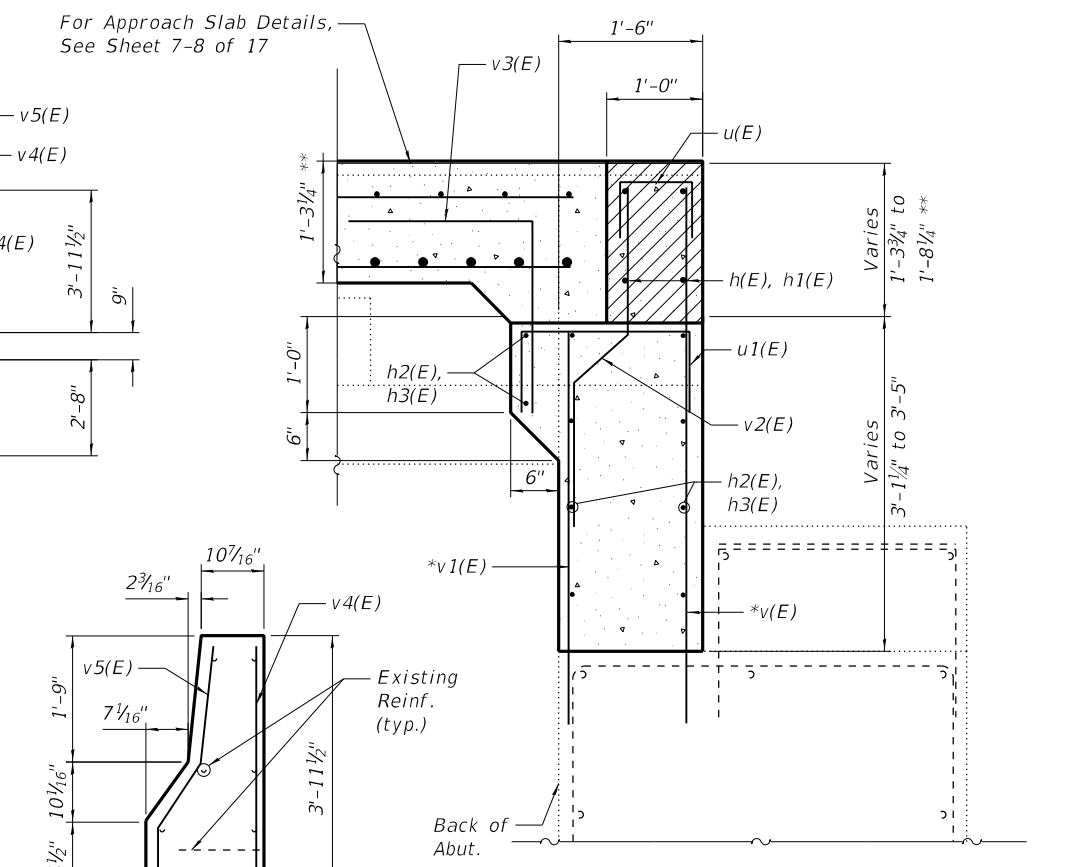
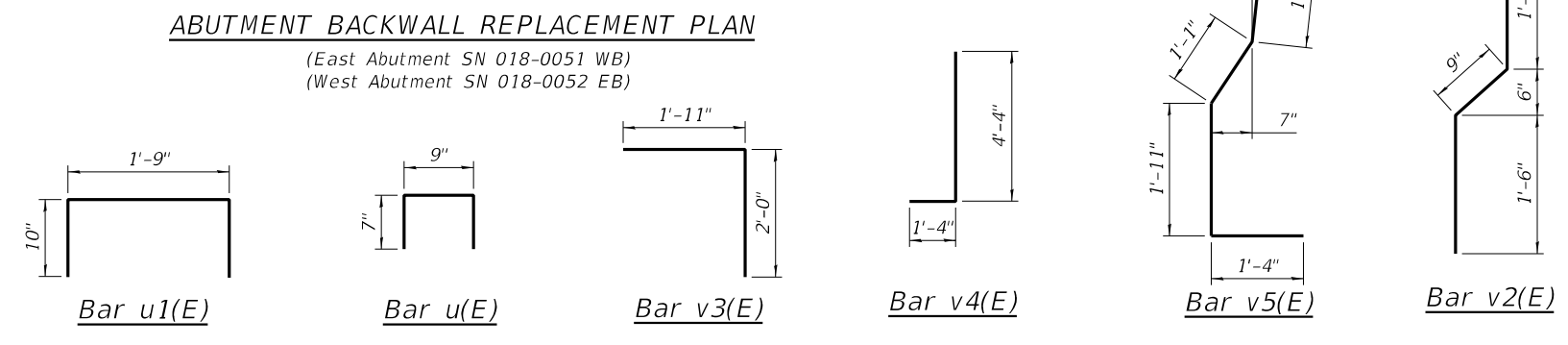
ABUTMENT BACKWALL REMOVAL DETAILS - III
S.N. 018-0051 (WB)
SHEET 13 OF 19 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 23 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTE

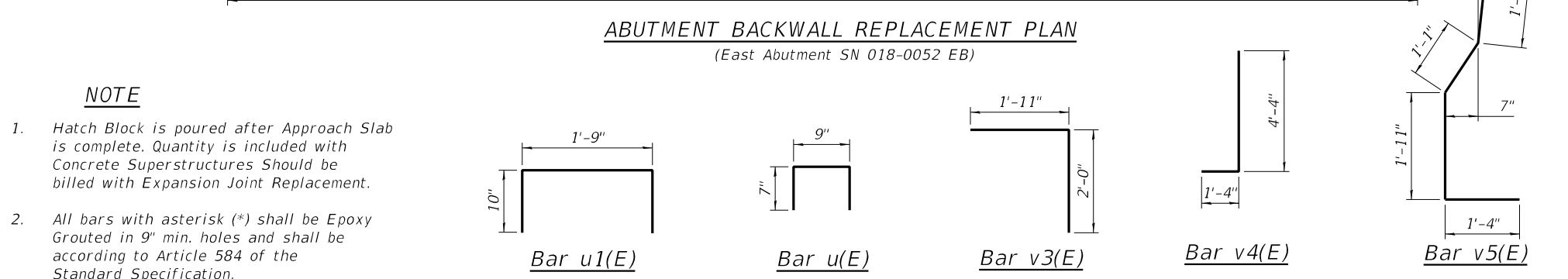
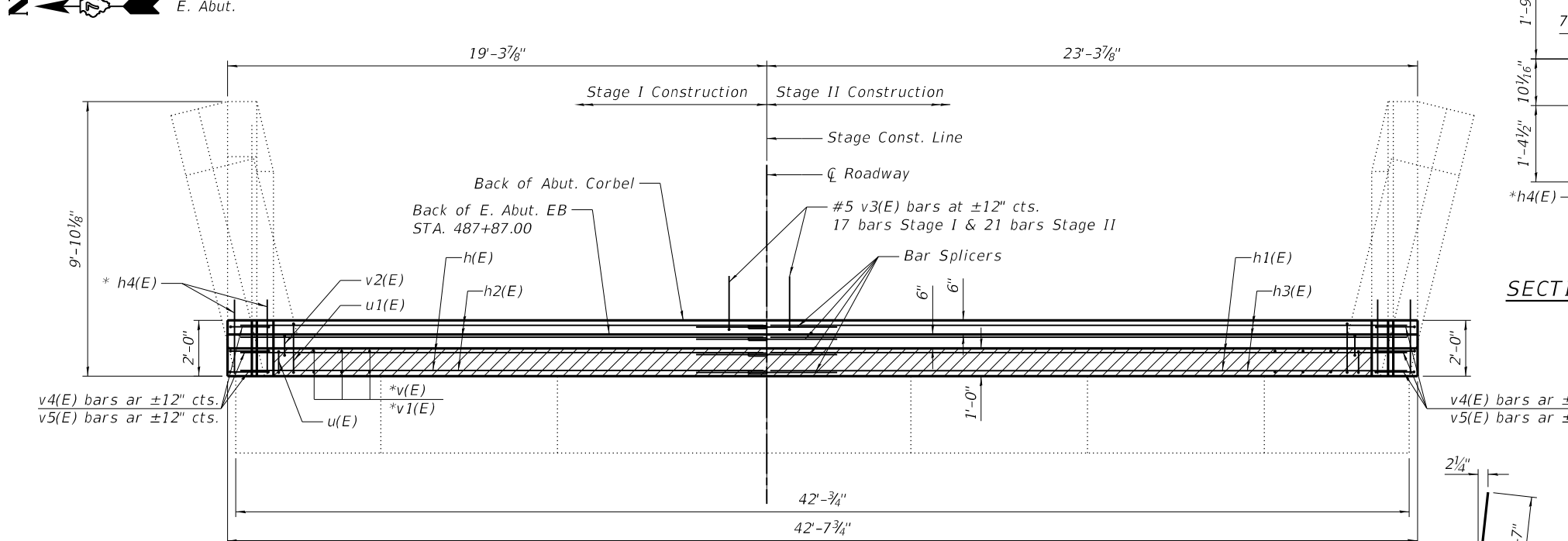
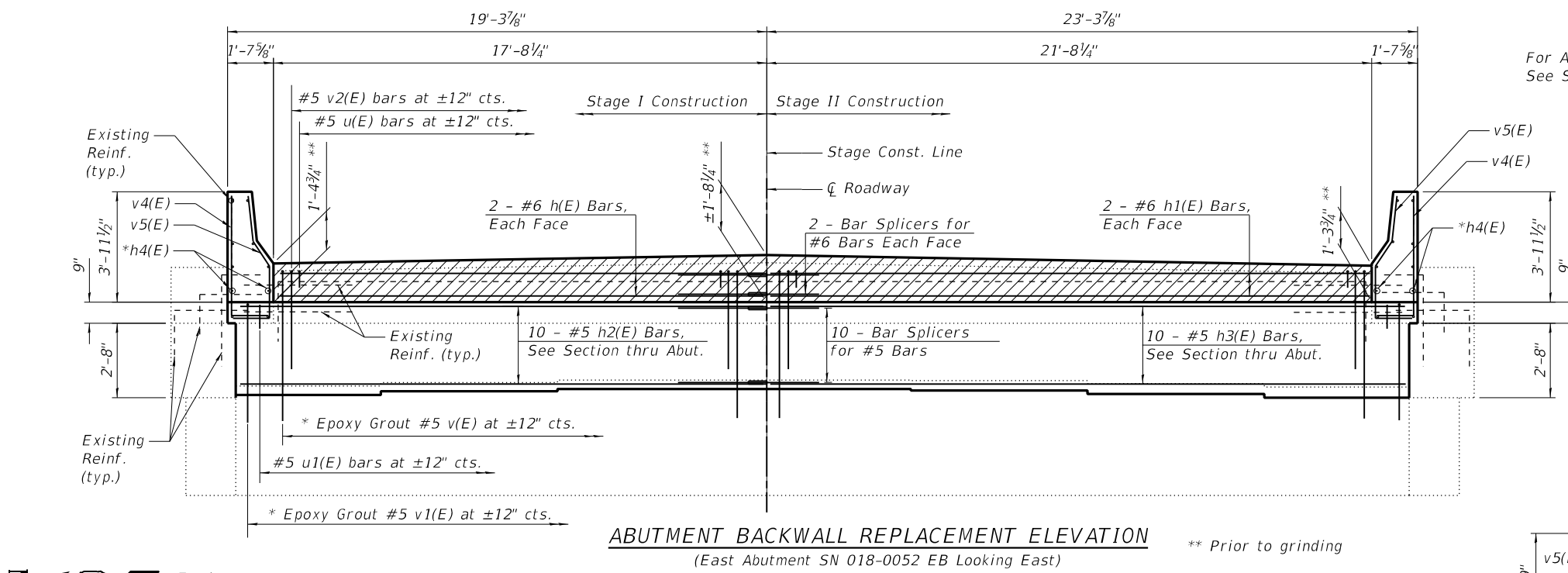
- Hatch Block is poured after Approach Slab is complete. Quantity is included with Concrete Superstructures Should be billed with Expansion Joint Replacement.
- All bars with asterisk (*) shall be Epoxy Grouted in 9" min. holes and shall be according to Article 584 of the Standard Specification.



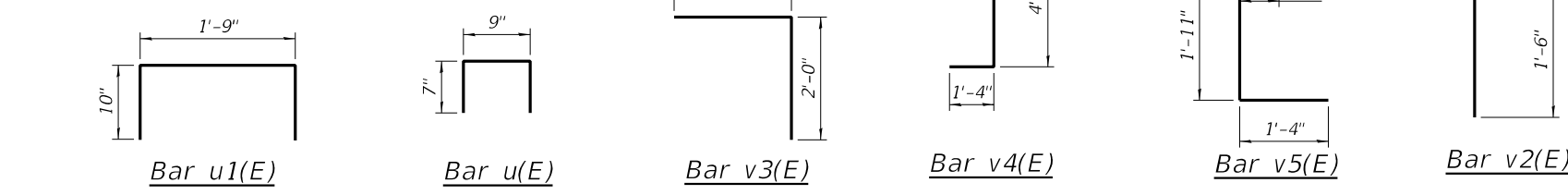
WESTBOUND EAST ABUT. & EASTBOUND WEST ABUT. BILL OF MATERIAL
Per Abutment

| BAR | NO. OF BARS | | TOTAL | SIZE | LENGTH | SHAPE |
|----------------------------------|-------------|----------|-------|------|---------|-------|
| | STAGE I | STAGE II | | | | |
| h(E) | 4 | | 4 | #6 | 17'-5" | — |
| h1(E) | | 4 | 4 | #6 | 21'-5" | — |
| h2(E) | 10 | | 10 | #5 | 18'-9" | — |
| h3(E) | | 10 | 10 | #5 | 22'-9" | — |
| h4(E) | 2 | 2 | 4 | #5 | 2'-8" | — |
| u(E) | 18 | 22 | 40 | #5 | 1'-11" | ┌ |
| u1(E) | 20 | 24 | 44 | #5 | 3'-5" | ┌ |
| v(E) | 18 | 22 | 40 | #5 | 5'-7" | — |
| v1(E) | 20 | 24 | 44 | #5 | 4'-1" | — |
| v2(E) | 18 | 22 | 40 | #5 | 3'-9" | ┌ |
| v3(E) | 17 | 21 | 24 | #5 | 3'-11" | ┌ |
| v4(E) | 3 | 3 | 6 | #4 | 5'-8" | ┌ |
| v5(E) | 3 | 3 | 6 | #4 | 5'-11" | ┌ |
| Concrete Structures | | | | | Cu. Yd. | 8.9 |
| Reinforcement Bars, Epoxy Coated | | | | | Pound | 1693 |
| Bar Splicers | | | | | Each | 14 |

MODEL: 0180051-74A71-014
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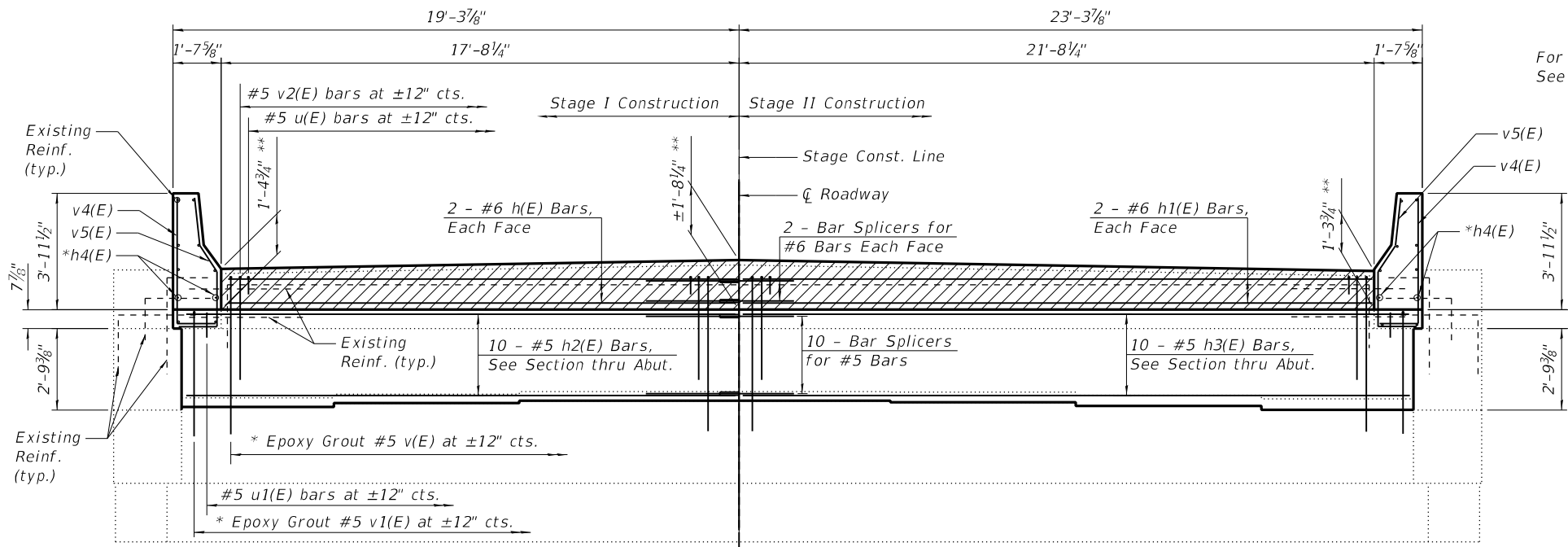
- NOTE**
- Hatch Block is poured after Approach Slab is complete. Quantity is included with Concrete Superstructures Should be billed with Expansion Joint Replacement.
 - All bars with asterisk (*) shall be Epoxy Grouted in 9" min. holes and shall be according to Article 584 of the Standard Specification.



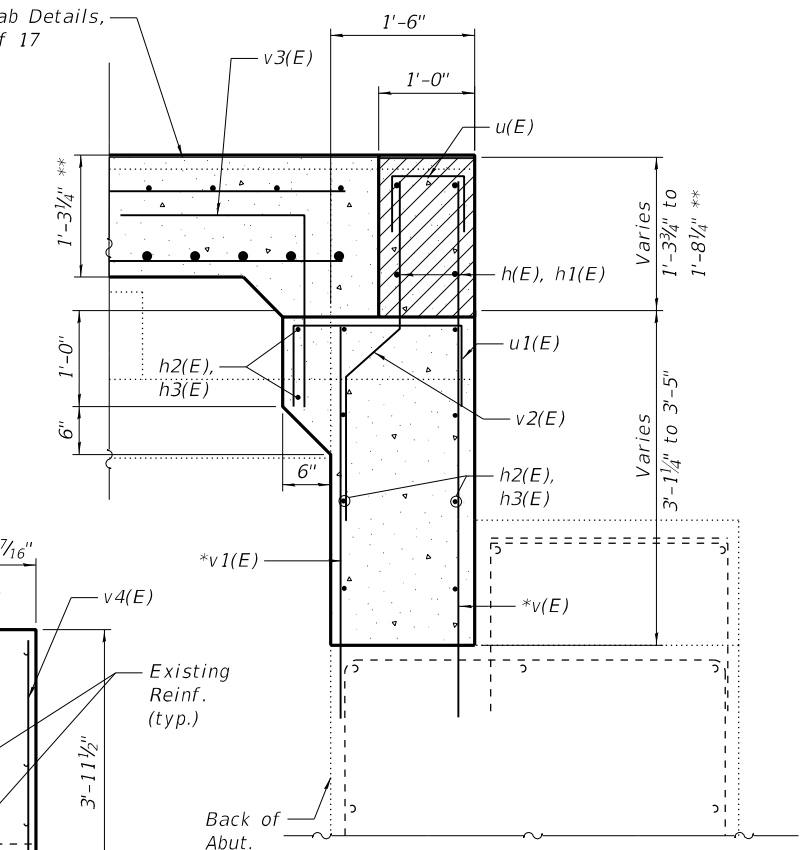
| BAR | NO. OF BARS | | TOTAL | SIZE | LENGTH | SHAPE |
|----------------------------------|-------------|----------|-------|------|---------|-------|
| | STAGE I | STAGE II | | | | |
| h(E) | 4 | | 4 | #6 | 17'-5" | — |
| h1(E) | | 4 | 4 | #6 | 21'-5" | — |
| h2(E) | 10 | | 10 | #5 | 18'-9" | — |
| h3(E) | | 10 | 10 | #5 | 22'-9" | — |
| h4(E) | 2 | 2 | 4 | #5 | 2'-8" | — |
| u(E) | 18 | 22 | 40 | #5 | 1'-11" | ┌ |
| u1(E) | 20 | 24 | 44 | #5 | 3'-5" | ┌ |
| v(E) | 18 | 22 | 40 | #5 | 5'-7" | — |
| v1(E) | 20 | 24 | 44 | #5 | 4'-1" | — |
| v2(E) | 18 | 22 | 40 | #5 | 3'-9" | ┌ |
| v3(E) | 17 | 21 | 24 | #5 | 3'-11" | ┌ |
| v4(E) | 3 | 3 | 6 | #4 | 5'-8" | ┌ |
| v5(E) | 3 | 3 | 6 | #4 | 5'-11" | ┌ |
| Concrete Structures | | | | | Cu. Yd. | 8.9 |
| Reinforcement Bars, Epoxy Coated | | | | | Pound | 1693 |
| Bar Splicers | | | | | Each | 14 |

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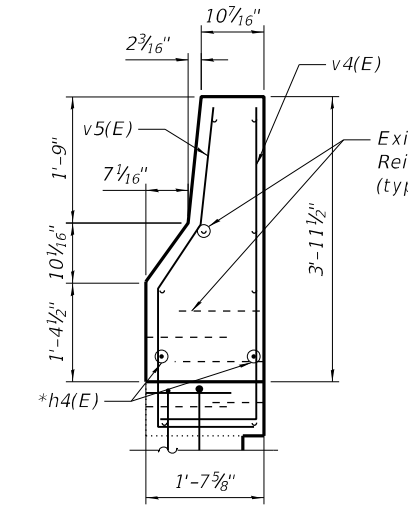
For Approach Slab Details,
See Sheet 7-8 of 17



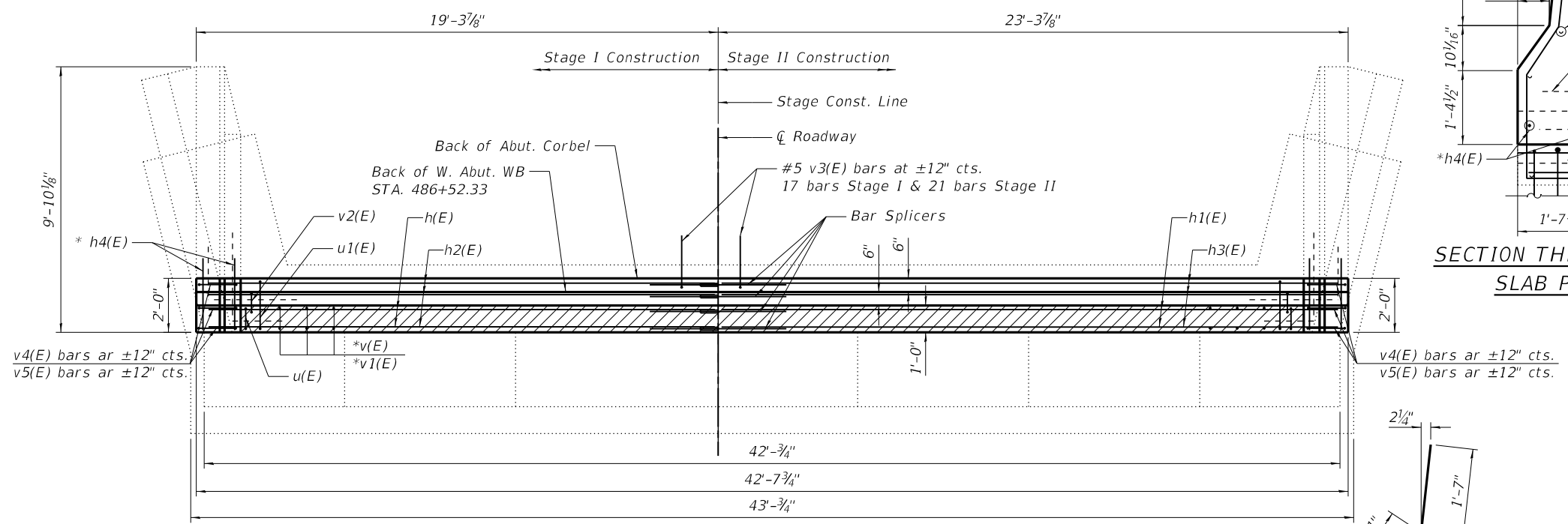
ABUTMENT BACKWALL REPLACEMENT ELEVATION
(West Abutment SN 018-0052 WB Looking West) ** Prior to grinding



SECTION THRU ABUTMENT
Replacement



SECTION THRU APPROACH SLAB PARAPET



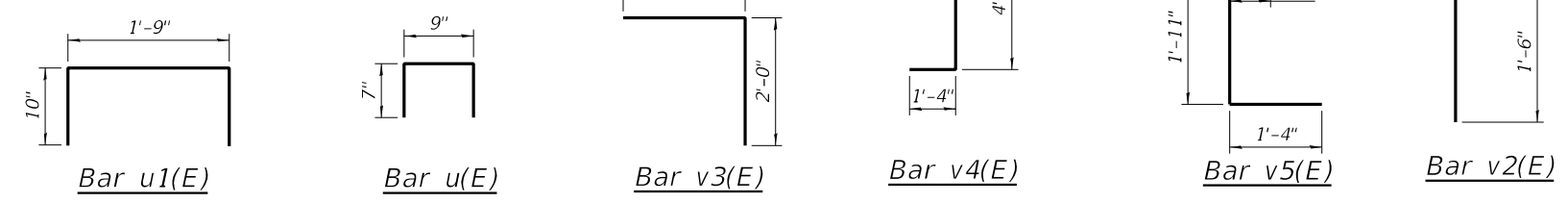
ABUTMENT BACKWALL REPLACEMENT PLAN
(West Abutment SN 018-0051 WB)

WESTBOUND WEST ABUT. BILL OF MATERIAL

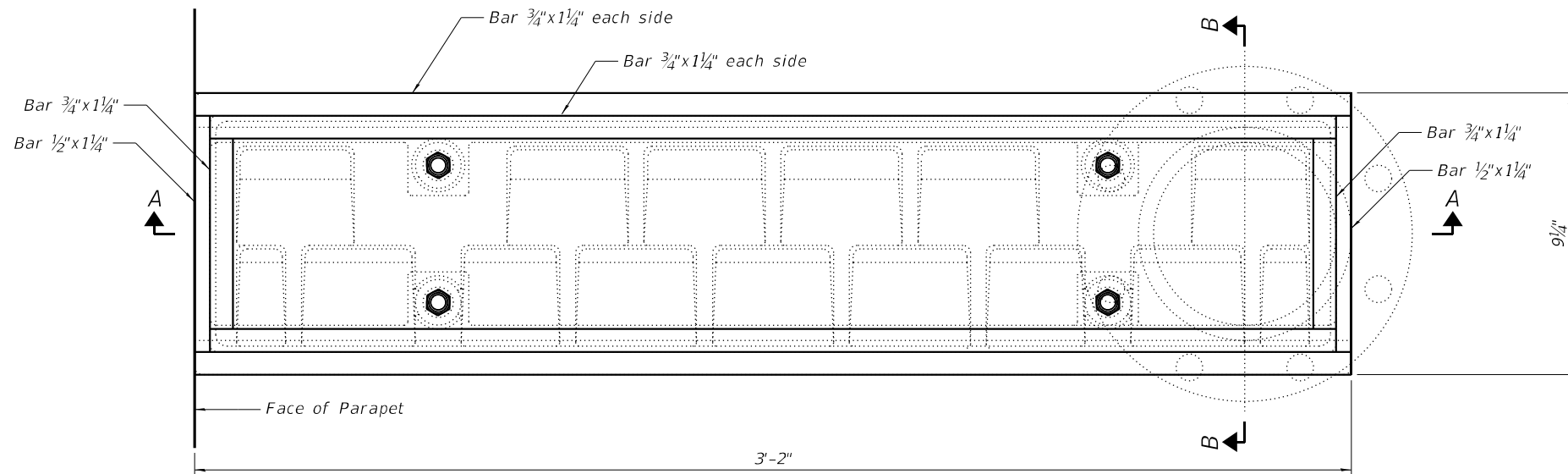
| BAR | NO. OF BARS | | TOTAL | SIZE | LENGTH | SHAPE |
|----------------------------------|-------------|----------|-------|------|---------|-------|
| | STAGE I | STAGE II | | | | |
| h(E) | 4 | | 4 | #6 | 17'-5" | — |
| h1(E) | | 4 | 4 | #6 | 21'-5" | — |
| h2(E) | 10 | | 10 | #5 | 18'-9" | — |
| h3(E) | | 10 | 10 | #5 | 22'-9" | — |
| h4(E) | 2 | 2 | 4 | #5 | 2'-8" | — |
| u(E) | 18 | 22 | 40 | #5 | 1'-11" | ┌ |
| u1(E) | 20 | 24 | 44 | #5 | 3'-5" | ┌ |
| v(E) | 18 | 22 | 40 | #5 | 5'-7" | — |
| v1(E) | 20 | 24 | 44 | #5 | 4'-1" | — |
| v2(E) | 18 | 22 | 40 | #5 | 3'-9" | ┌ |
| v3(E) | 17 | 21 | 24 | #5 | 3'-11" | ┌ |
| v4(E) | 3 | 3 | 6 | #4 | 5'-8" | ┌ |
| v5(E) | 3 | 3 | 6 | #4 | 5'-11" | ┌ |
| Concrete Structures | | | | | Cu. Yd. | 8.9 |
| Reinforcement Bars, Epoxy Coated | | | | | Pound | 1693 |
| Bar Splicers | | | | | Each | 14 |

NOTE

- Hatch Block is poured after Approach Slab is complete. Quantity is included with Concrete Superstructures Should be billed with Expansion Joint Replacement.
- All bars with asterisk (*) shall be Epoxy Grouted in 9" min. holes and shall be according to Article 584 of the Standard Specification.

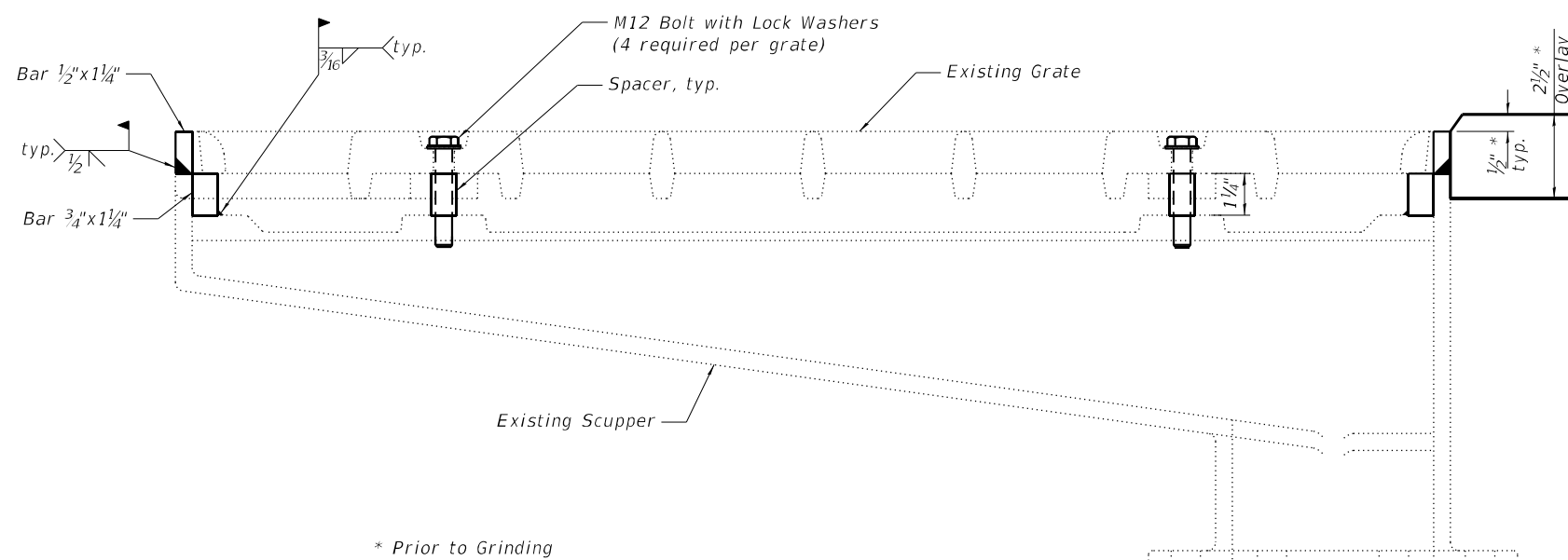


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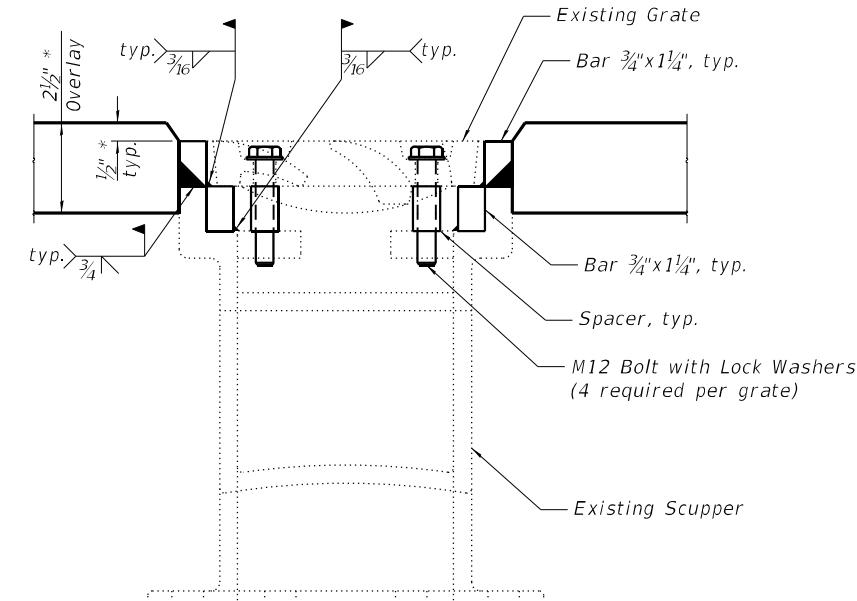


PLAN

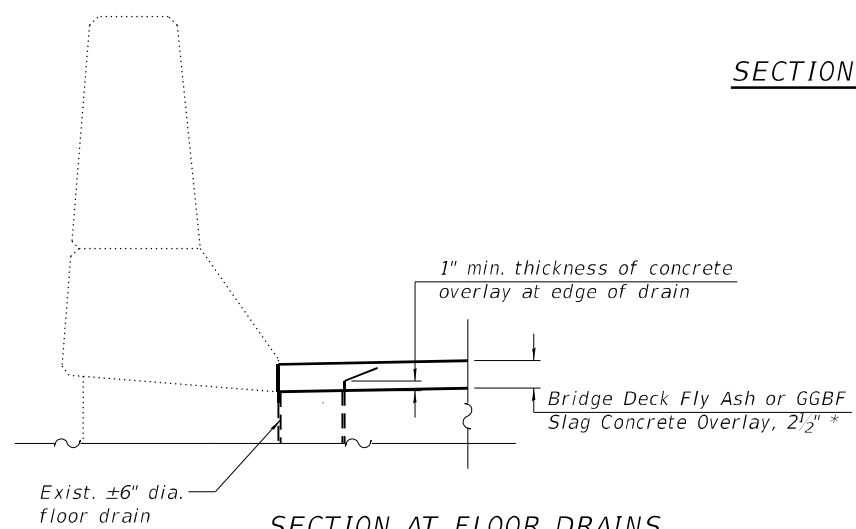
Notes:
 The Contractor shall field verify existing dimensions and details of the existing scupper and make necessary adjustments prior to construction of new adjusting ring or ordering material for adjusting drainage scupper.
 All structural steel shall conform to AASHTO M-270, Grade 36.
 The adjusting bars shall be galvanized according to AASHTO M111 and ASTM A385.
 All cast iron parts shall be grey iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor studs, washers, and nuts shall conform to the requirements of ASTM A307 and shall be galvanized according to the requirements of AASHTO M 232.
 Cast iron parts shall be unfinished.
 Adjusting ring shall be from Neenah or approved equal.
 Structural steel weldments or equal sections of the same configuration may be submitted for cast iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
 All labor and materials necessary to remove the existing grate, clean the existing scupper, install the adjusting bars, and reinstall the existing grate are included in the cost of Drainage Scuppers to be Adjusted.



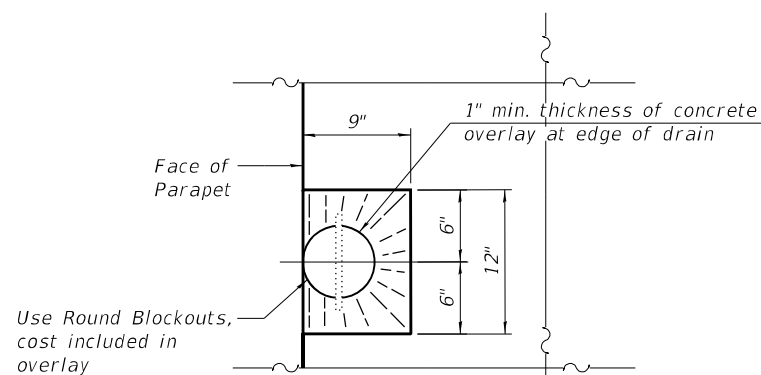
SECTION A-A



SECTION B-B



SECTION AT FLOOR DRAINS



OVERLAY TREATMENT AT FLOOR DRAINS

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---------------------------------|------|----------|
| Drainage Scupper to be Adjusted | Each | 4 |

MODEL: 018005174A71-017
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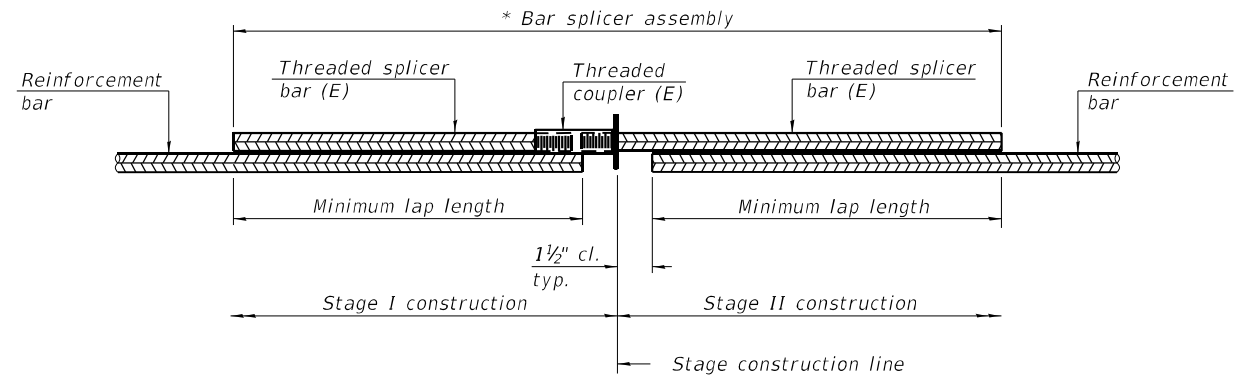
GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 3501 CONSTITUTION DRIVE
 SPRINGFIELD, ILLINOIS 62711
 PROFESSIONAL DESIGN FIRM NO. 18-000179
 PROFESSIONAL SEAL NO. 000179-000179-000179
 (217) 794-8844, 794-2277 (F)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakashg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DRAIN PRESERVATION & SCUPPER MODIFICATION
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

| | | | | |
|---------------------------|--------------------------|------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 27 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

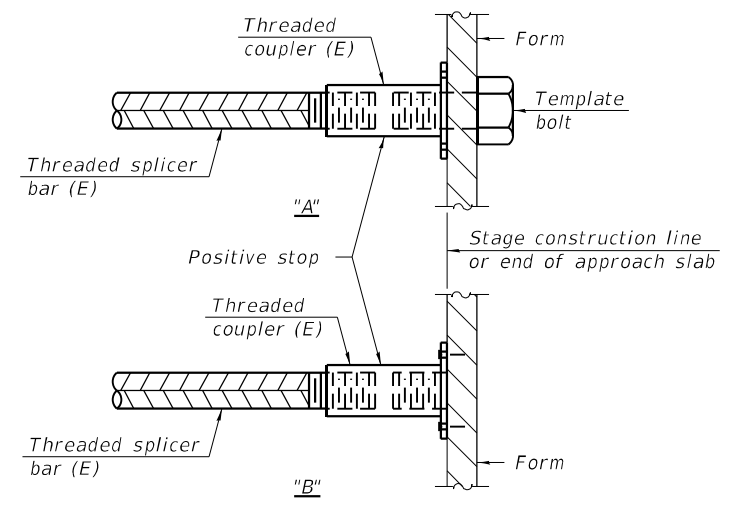


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

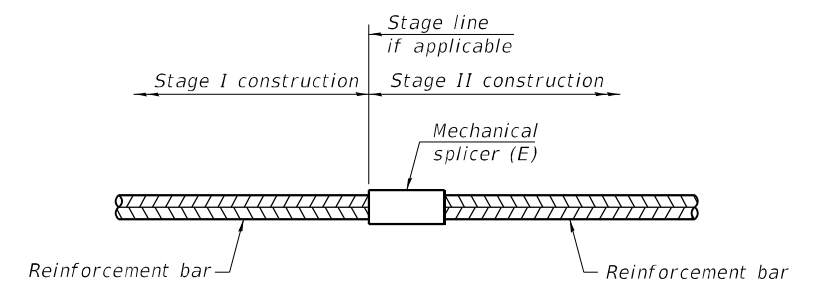
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | S.N. 018-0051 | S.N. 018-0052 | Total No. of assemblies required | Minimum lap length |
|---|----------|---------------|---------------|----------------------------------|--------------------|
| Exp. Jt. Repair - Top & Bottom of Slab | #5 | 16 | 16 | 32 | 3'-0" |
| Abut. Backwall Repair - Hatch Block | #6 | 8 | 8 | 16 | 3'-7" |
| Abut. Backwall Repair - Backwall | #5 | 20 | 20 | 40 | 3'-0" |
| Approach Slab Repair - Top of Slab | #5 | 76 | 76 | 152 | 3'-0" |
| Approach Slab Repair - Bottom of Slab | #8 | 100 | 100 | 200 | 4'-9" |
| Approach Footing - Top & Bottom of Slab | #5 | 80 | 80 | 160 | 3'-0" |



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| | | |
| | | |
| | | |
| | | |

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: 018005174A71-018
 FILE NAME: J:\201003_W0# 3_2_Bridge_Repairs in D7\Drawings\018005174A71.dgn
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GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 3501 CASCADILLA DRIVE
 SPRINGFIELD, ILLINOIS 62711
 PROFESSIONAL DESIGN FIRM NO. 181-001178
 PROFESSIONAL SEAL NO. 001-11000-00000000
 (217) 792-8844, 792-2223 (F)

| | | | | | |
|--------------|---------------|------------|-----|-----------|--|
| USER NAME = | prakarshg | DESIGNED - | KAS | REVISED - | |
| | | CHECKED - | MAC | REVISED - | |
| PLOT SCALE = | 0.1667' / in. | DRAWN - | PG | REVISED - | |
| PLOT DATE = | 8/24/2022 | CHECKED - | MAC | REVISED - | |

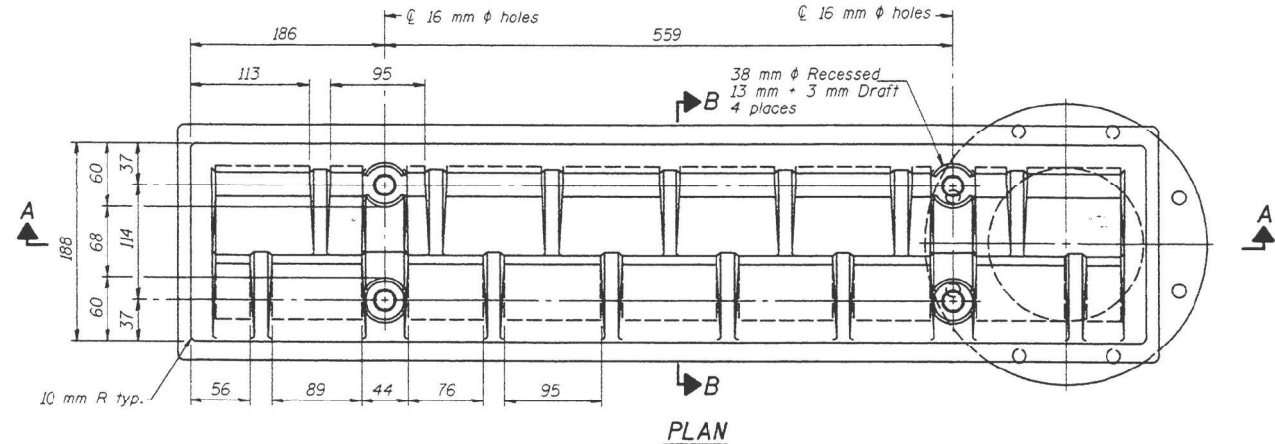
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

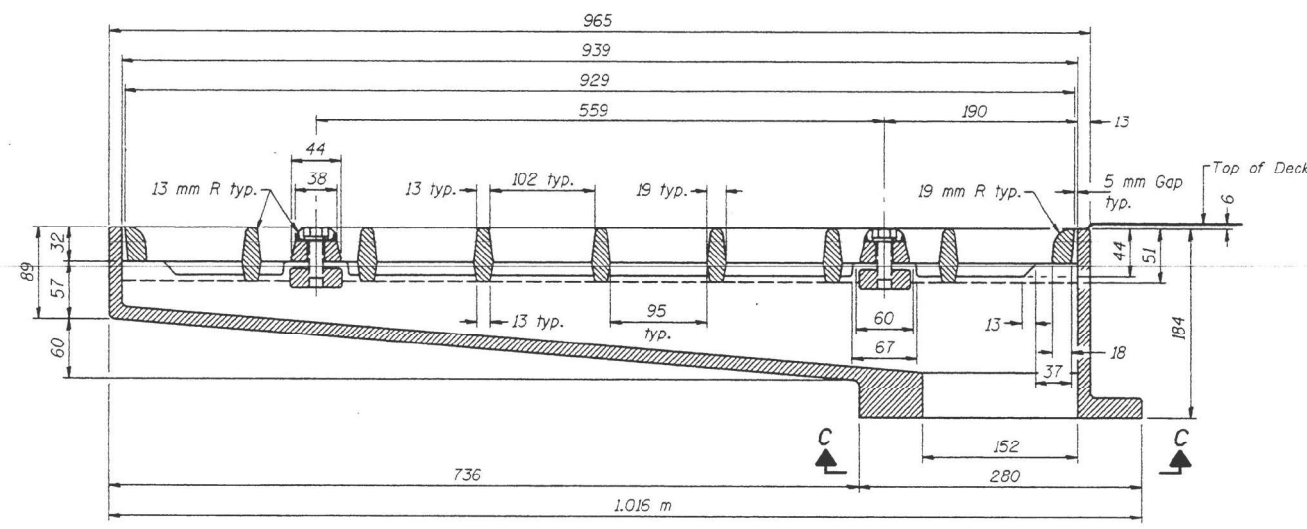
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| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 28 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS | | | FED. AID PROJECT | |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| 70 | 18-48BR | CUMBERLAND | 113 | 106 |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

SHEET 22 OF 22 SHEETS

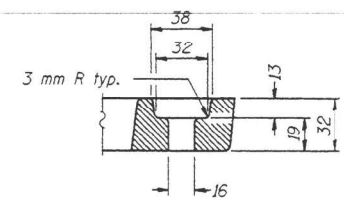


PLAN

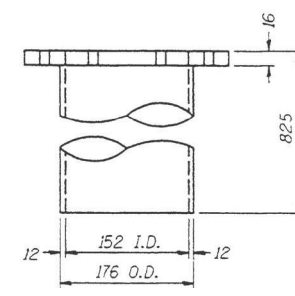
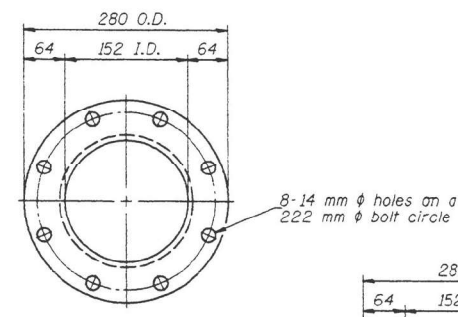


SECTION A-A

See sheet B of 22 for scupper location relative to parapet.

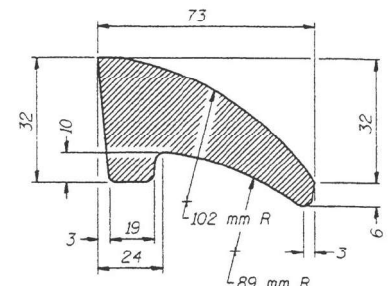


BOLT HOLE DETAIL

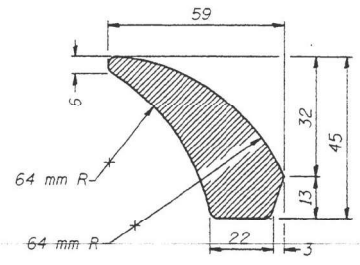


VIEW C-C

DOWNSPOUT



FIRST VANE DETAIL



SECOND VANE DETAIL

Notes: All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B. Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232M. The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam. As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications. Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper. Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-------------------------|------|----------|
| Drainage Scupper, DS-33 | Each | 4 |

REVISIONS

| NAME | DATE |
|------|------|
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAINAGE SCUPPER, DS-33
 F.A.I. RTE. 70 OVER RANGE CREEK
 SECTION 18-48BR STA. 207+348.825
 CUMBERLAND COUNTY
 S.N. 018-0051 (W.B.) & S.N. 018-0052 (E.B.)
 SCALE: AS NOTED DRAWN BY: LP
 DATE: JULY 2000 CHECKED BY: MJS

UPCHURCH AND ASSOCIATES
 CONSULTING ENGINEERS
 3501 CARROLLTON DRIVE
 NAPERVILLE, ILLINOIS 60563
 (630) 448-2331
 (630) 448-2332

DS-33 8-01-2000

MODEL: 018005174A71-019
 FILE NAME: J:\2010\03_WD# 3. Bridge Repairs in D7\Drawings\018005174A71.dgn
 8/24/2022 8:35:33 AM

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 3501 CARROLLTON DRIVE
 NAPERVILLE, ILLINOIS 60563
 (630) 448-2331
 (630) 448-2332

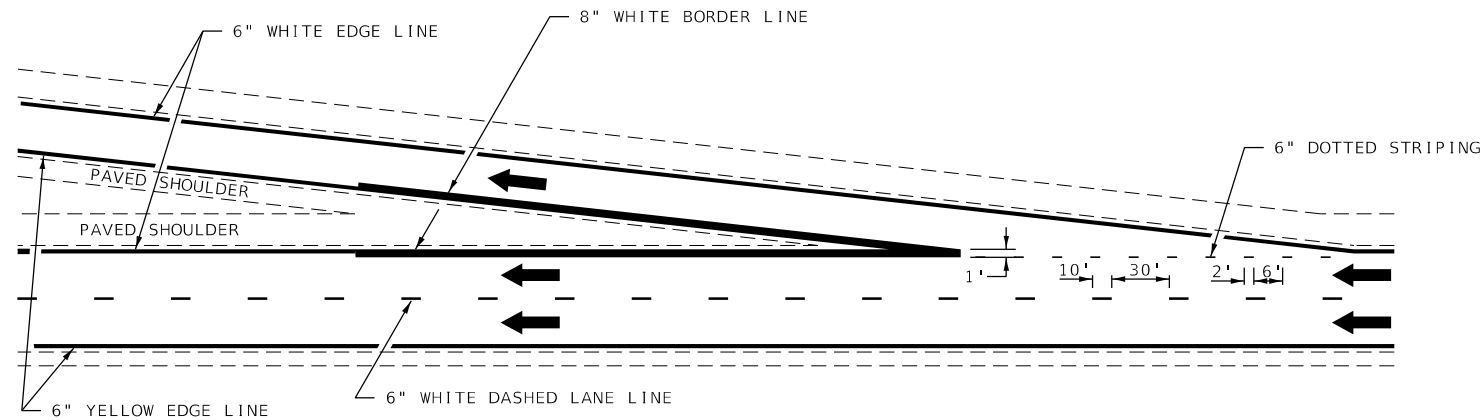
| | | | | | |
|--------------|---------------|------------|----|-----------|----|
| USER NAME = | prakarshg | DESIGNED - | -- | REVISED - | -- |
| PLOT SCALE = | 0.1667" / in. | CHECKED - | -- | REVISED - | -- |
| PLOT DATE = | 8/24/2022 | DRAWN - | PG | REVISED - | -- |
| | | CHECKED - | -- | REVISED - | -- |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

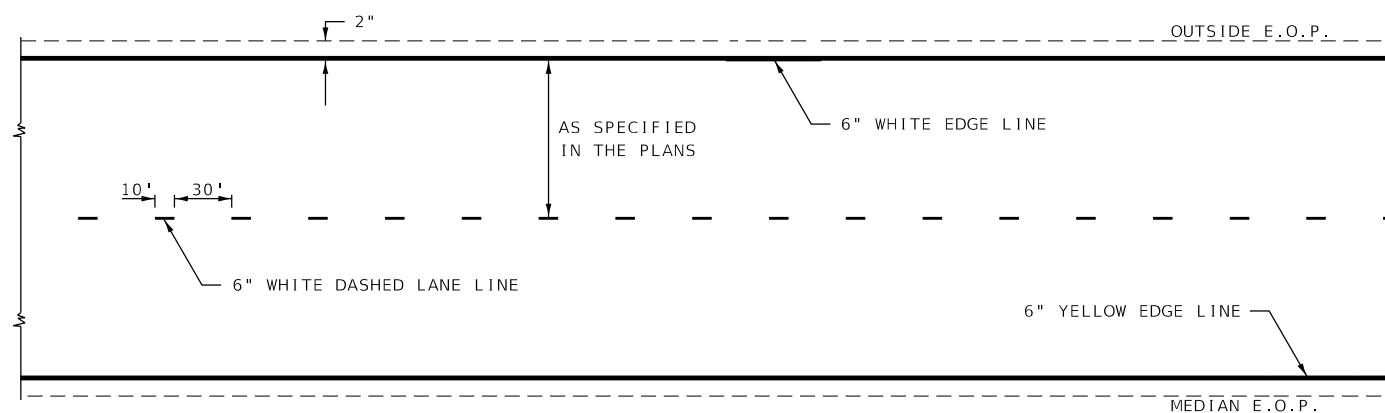
EXISTING SCUPPERS PLAN SHEET
 S.N. 018-0051 (WB) & S.N. 018-0052 (EB)

SHEET 19 OF 19 SHEETS

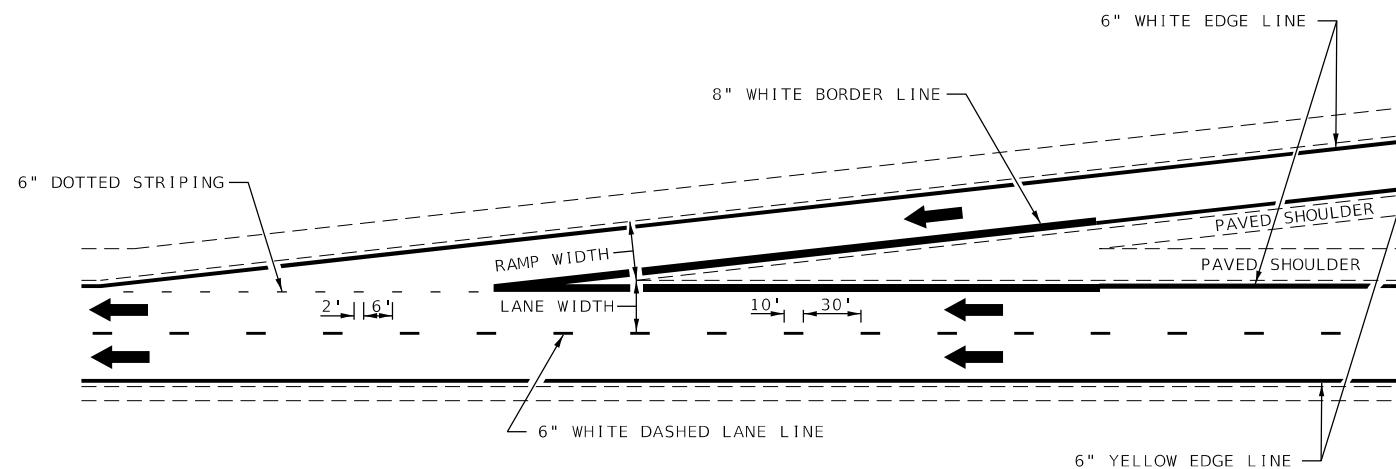
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------------------|------------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 29 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

MODEL NUMBER
FILE NAME: 811215

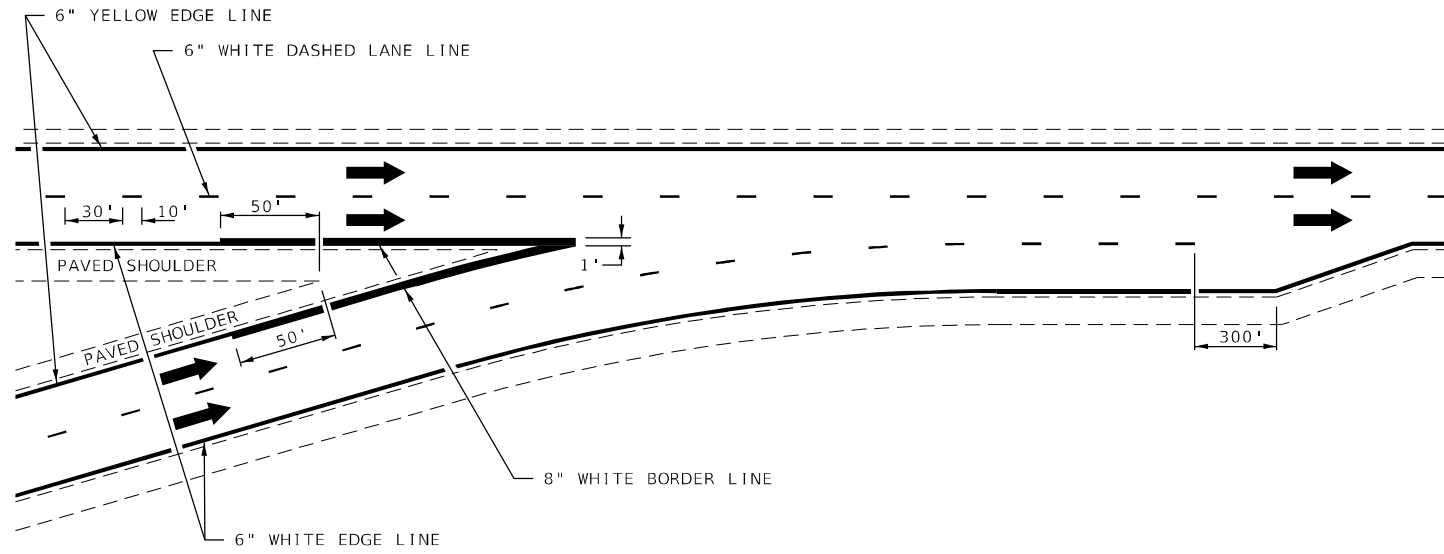
| | | |
|----------------------|------------|---------------------|
| USER NAME = SUSERS | DESIGNED - | REVISED - MKS 04-08 |
| | DRAWN - | REVISED - DRM 01-09 |
| PLOT SCALE = 5SCALES | CHECKED - | REVISED - DRM 12-10 |
| PLOT DATE = SDATES | DATE - | REVISED - MAD 01-20 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

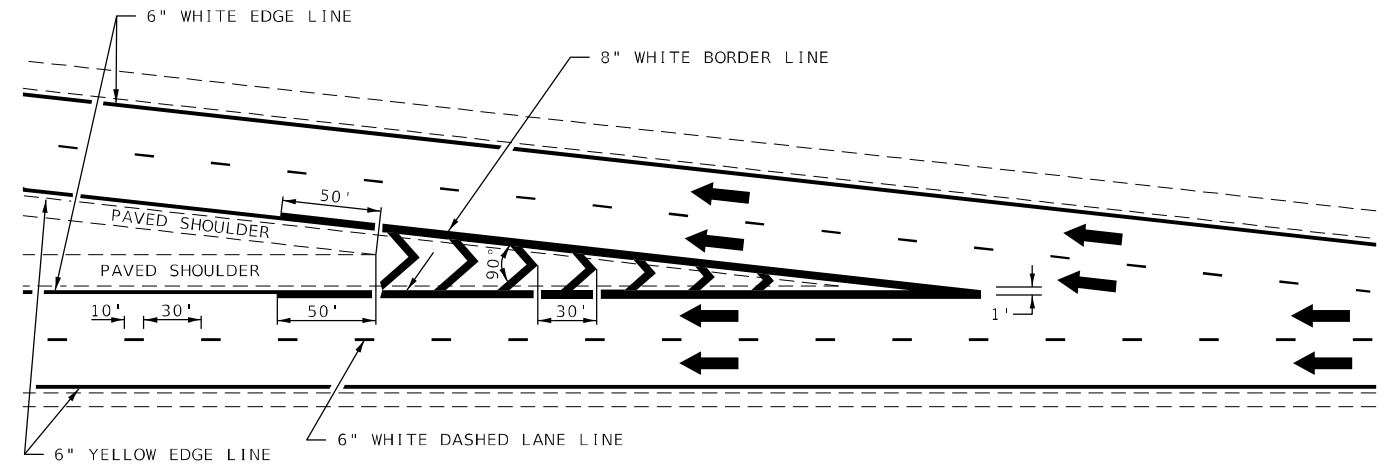
TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY
PAVEMENT MARKING

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIR 2023-3 | CUMBERLAND | 31 | 30 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

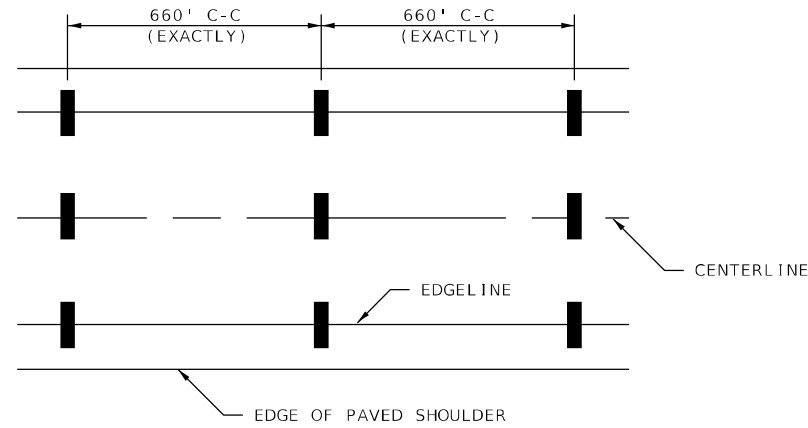


TYPICAL CONVERGENCE MARKING

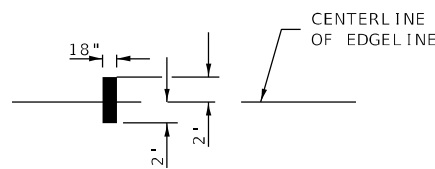


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

| | | |
|------------------------------|------------|---------------------|
| USER NAME = Mona.Steffen | DESIGNED - | REVISED - MMO 12-99 |
| | DRAWN - | REVISED - DRM 08-04 |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - MKS 04-08 |
| PLOT DATE = 8/22/2022 | DATE - | REVISED - DRM 01-09 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY
PAVEMENT MARKING

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|------------|--------------|-----------|
| 70 | D7 BRIDGE REPAIRS 2023-3 | CUMBERLAND | 31 | 31 |
| CONTRACT NO. 74A71 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: Default
FILE: \\na16c-pw\uldest-pw-beadefy.com\P\W\DOT\Documents\DOT Office\District 7\Project\74A71\CADD\DATA\CAD\Sheet\74A71-L-EdgelLine.dgn